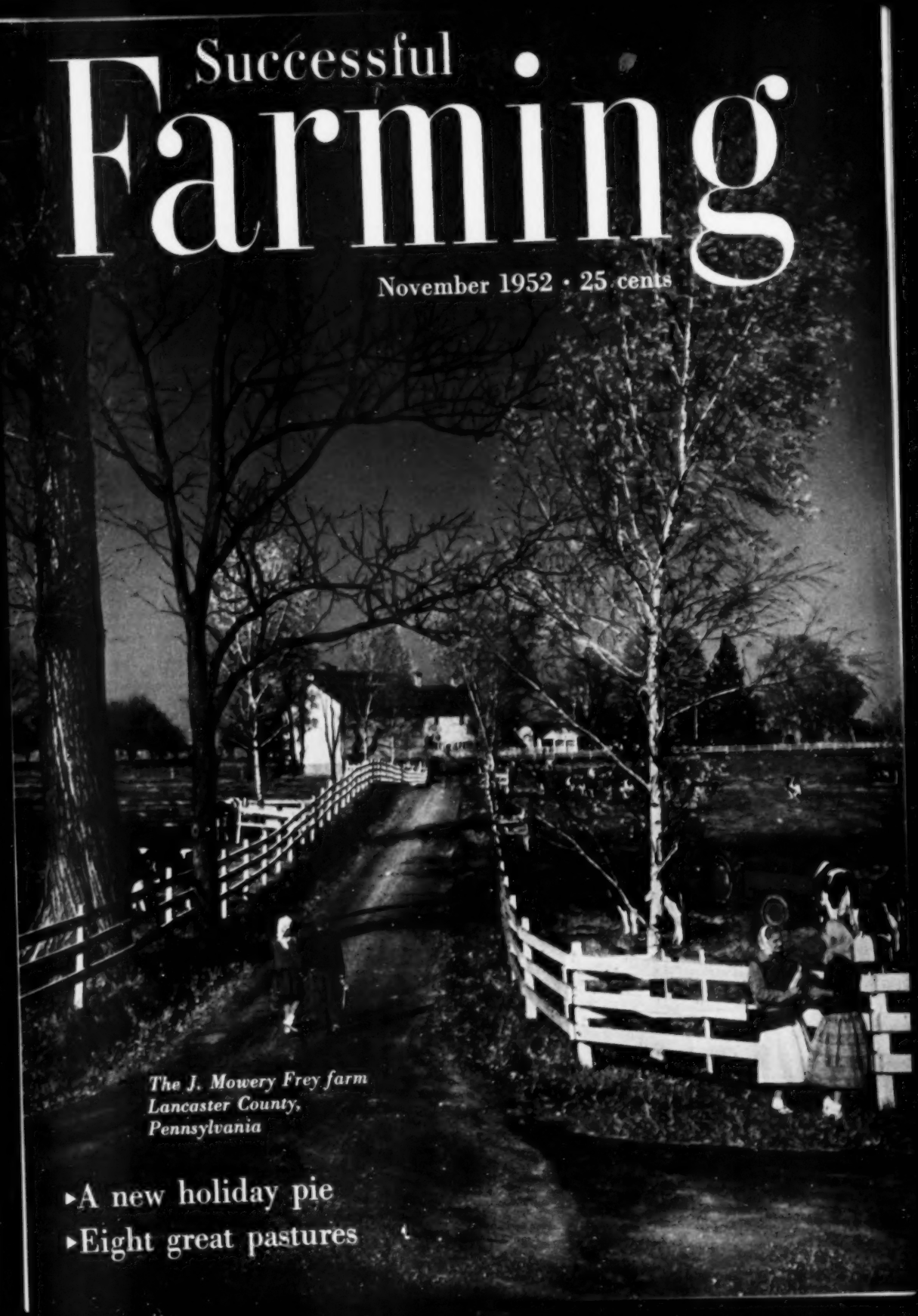
Successful Farming

November 1952 · 25 cents



The J. Mowery Frey farm
Lancaster County,
Pennsylvania

▸A new holiday pie

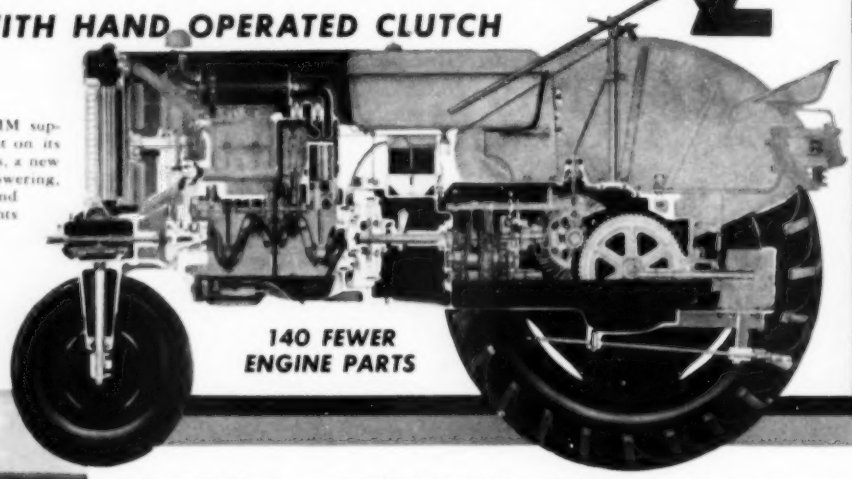
▸Eight great pastures

WHEN THEY KNOW THE INSIDE FACTS

PROFIT-WISE FARMERS CHOOSE THE MM VISIONLINED Z

WITH HAND OPERATED CLUTCH

UNI-MATIC POWER . . . MM supplies, as optional equipment on its famous Visionlined tractors, a new hydraulic unit for raising, lowering, and controlling mounted and pull-behind farm implements while on the go.



140 FEWER ENGINE PARTS

THE PREFERRED 2-3 PLOW TRACTOR . . . with plenty of reserve power!

It's better to have *plenty of power*, than not quite enough when you need it. *And the* MM Z *has a reserve of stepped-up power for drawbar, belt, and power take-off work!* Greater piston displacement of 206 cubic inches helps boost the power of the Z to deliver approximately 36 horsepower at the belt and about 31 horsepower at the drawbar. *You have plenty of power when you need it . . . MM economical power of proved dependability!*

The heavy-duty transmission of the Z runs in oil bath . . . has 5 forward speeds from 2.4 m.p.h. to 13.1 m.p.h. and a reverse of 2.2 m.p.h. Large 11-38 tires give greater traction . . . *gear it to the ground* for the roughest, toughest farm task.

TAKE A LOOK INSIDE . . .

. . . at the roller bearing mounted steering gear that gives new car handling ease . . . at the controlled cooling system which assures *uniform* temperature for *uniform* flow of MM economical power . . . at the drop-forged 3 bearing crankshaft . . . at the heavy-duty over-center twin disc clutch . . . note the precision cast iron pistons with 4 rings . . . study the full pressure lubrication system . . . marvel at the simplicity of the *exclusive* MM valve mechanism, one of the many *quality* engineered features which enabled MM engineers to produce a *powerful, dependable, economical engine* with 140 fewer moving parts!

Your 'Z owner-neighbors' will mention other *points of preference*:—the liberal use of oil seals that keep out dirt . . . the safe, smooth, comfortable operation assured by adjustable seat and steering wheel, non-slip platform, and conveniently located controls. They'll mention the high turbulence combustion chambers which cut fuel consumption . . . the easy accessibility for the minimum servicing required. Cylinder blocks cast in pairs with side openings is another outstanding feature which is *a point of preference* for the MM Visionlined Z.

THERE'S A Z TRACTOR DESIGNED FOR YOUR TYPE OF FARMING

The Visionlined ZAU has 2 front wheels together which by reversing have a tread of 12⅞ inches. Rear wheel tread is adjustable from 54 to 88 inches. For narrow row crop the Visionlined ZAN with a single 7.50 x 10 front wheel and 54 to 88 inch rear wheel tread is ideal. The standard tread Visionlined ZAS has a 47 inch front wheel tread with 54 inch or 59 inch rear wheel tread. The ZAE has a rear tread of 54 to 88 inches and a front axle permitting adjustment of front wheels from 56 to 84 inches at 4 inch intervals.

From MM owners and from your friendly MM dealer you'll want to get complete facts . . . learn about all the *points of preference* on the Visionlined Z . . . the satisfaction of owning the tractor that will help you produce more at lower cost! The Visionlined Z is *geared to the ground* . . . preferred for profitable production. It's the "buy" that gets you more for your money.

Quality Control IN MM FACTORIES ASSURES DEPENDABLE PERFORMANCE IN THE FIELD

MINNEAPOLIS MOLINE MODERN MACHINERY

MINNEAPOLIS-MOLINE

MINNEAPOLIS 1, MINNESOTA

MORE TRACTION
for winter work—at no extra cost!

Now's the time of year when you need sure-gripping tractor tires more than ever to get those winter chores done quickly. Ruggedness is another "must"—and so is even wear—but the tire that also pulls where others *won't*, is the tire that gives you the best day's work for your money—winter and summer alike!

Millions of farmers agree on that!

Survey after survey, year after year, shows far more farmers prefer Goodyear's farm-proved Super-Sure-Grip than any other make. There is NO close second!

So why not insist on fullest value in every way? There's no extra charge for Goodyears!

3 REASONS WHY GOODYEARS GIVE "THE GREATEST PULL ON EARTH"

STRAIGHT LUGS. Goodyear lugs are ruler-straight and come closer together at the shoulders—providing the time-proved, wedge-like bite that holds the soil in place and gives this tire more traction – gives your tractor more pulling power.

O-P-E-N C-E-N-T-E-R – pioneered by Goodyear. Most widely imitated of all tractor tread designs because farm experience proves it the most efficient – *when combined with straight lugs!*

EVEN WEAR. Goodyear *straight* lugs work against the soil evenly, pull evenly, wear more evenly – to lengthen tire life and make your tire dollars go farther.

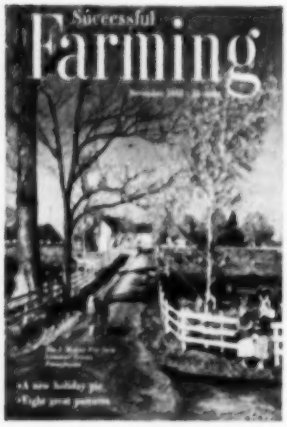
GOODYEAR
Super-Sure-Grip Tractor Tires

FIRST in Traction
FIRST in Long Wear
FIRST in Popularity

Super-Sure-Grip—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

We think you'll like "THE GREATEST STORY EVER TOLD"—Every Sunday—ABC Network

This month



Photograph: Bill Widson

To most of us, November is the month of roast turkey, elections, and the beginning of winter. But, once in a while, November rolls around in such fashion that winter still seems a long way off. These are the beautiful, golden days of late fall. And our cover picture this month was taken on just such a day—warm, sunny, with a smoky haze in the distance.

For this month's cover we visited one of the oldest farming communities in the country—Lancaster, Pennsylvania. And the farm shown on our cover belongs to the J. Mowery Frey family, Route 7, Lancaster. Like most of the farms in this community, the Frey farm has been in the family for many years. And, like many other farms in the Lancaster community, the Freys' specializes in dairying and purebred livestock.

Fultonway Farms, the name given their farm by the Freys, is noted for its purebred Holstein-Friesian cattle. The herd is one of the best in the community and is a result of Rag Apple and Dunloggin breeding—names which demand a great deal of respect in purebred-cattle circles.

The Freys take a good deal of pride in their dairy herd, and well they should. And they also take great pride in their farm, with its neat, painted buildings, good fences, and well-tended crops.

But—as it should be for all farm families—it's not all work at the Frey farm. Although you can't see it in the cover picture, there's an ample-size swimming pool in the pasture to the right of the lane. The Freys realized long ago that farming and good living go hand in hand. And their farm is a good example of how this realization of the possibilities of gracious living on the farm was put into practice.

Successful Farming

The Dairy Farmer

THE MAGAZINE OF FARM BUSINESS AND FARM HOMES

November, 1952 Vol. 50, No. 11

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THE CIDER MILL

Everything looked the same and yet everything might have been so different . . .

SOMETIMES, on crisp fall days, you can notice the sweet, rich smell of russet apples a good hundred yards before you come to Bailey's Cider Mill down on the Old County Road. It drifts out of the presses and hangs low over the ground and reminds you of Halloween and Thanksgiving and all of the good things of autumn rolled into one.

It reminded Harry Mason, driving back from a business trip to a neighboring town, of all those things and something more—that it would be a wonderful idea to take home some apples and a jug of Bailey's famous cider.

A few moments later he eased his car off the road and pulled to a stop at the side of the mill. It was the first time he had been there for some years, and after he got out of his car he stood and looked around him for a moment, refreshing his memory and trying to see if there were any signs of change.

Everything looked the same. The mill was as he had always remembered it. The apple orchards looked full and orderly as they always had. And the old Bailey homestead still sat on top of the knoll, tranquil among the giant elms that surrounded it.

Harry Mason nodded thoughtfully. The whole place had an air of peace and permanence—and that was good. It was good because that was what Tom Bailey had worked for and planned for right up to the time of his death. Peace and permanence. Security for his wife Nora and for his son Roger.

Tom Bailey had had a taste of insecurity in his own younger days, Harry remembered. His father had left the orchards and the mill to him so burdened with debts and mortgages and taxes that for several years it was touch and go whether Tom could keep the place at all. It took a lot of work—with a little luck thrown in—for him to get "out from under" and put the orchards on a paying basis.

Harry glanced up again at the old house on the hill, recalling how he and Tom Bailey had sat there evenings making plans so the Baileys' security would not be jeopardized again. Enough life insurance to pay for help to keep the place running without digging into Nora's income from it. A separate New York Life policy for Roger's schooling. Some extra life insurance to take care of estate taxes and other obligations that might otherwise cause some of the land to be sold . . . .

Yes, Harry thought, the old mill had an air of peace and permanence—and that was good. It was the thing Tom Bailey had sought for his family . . . and the thing Harry, as a New York Life agent, had helped others build for theirs. Harry smiled a little to himself as he turned and walked around to the broad doorway at the front of the mill.

NEW YORK LIFE INSURANCE COMPANY
51 Madison Avenue, New York 10, N. Y.

Naturally, names used in this story are fictitious.

Farm Outlook

Latest information on conditions, production, markets, and income prospects

Demand fair price

Consumer demand for food this winter will top all previous records. Cue for you is to demand fair prices for everything you sell.

Discount talk of near-record production. Only crop to set a new record this year is rice. Only crops bigger this year than last are wheat, corn, and potatoes.

Controls lift possible

The nation is busy. Factories are humming—upping production of both military and civilian goods. Industrial employment, wages, income, and consumer buying power all will set *new high marks* this winter.

Continued expansion in the nation's capacity for both military and civilian production makes early lifting of government controls on production and prices possible.

Government spending

These facts point to continued high activity until the middle of next year. But it is not too early to start thinking about what is to happen thereafter. Government spending for the military will start to taper off. Our plant and production facilities will be able to turn out an immense amount of goods for which buyers will have to be found.

The export picture is none too bright, either. A marked decline has occurred in exports during recent months. This bears watching since exports were running at an annual rate of nearly $16 billion—about 5 percent of our total output.

Deflationary factors

The current boom has been feeding largely on the public expenditures caused by the Korean situation. Yet it has not been an economy of scarcities for consumers as was that of World War II.

In short, it appears that the period of *inflation might come to an end* sometime next year. Then deflation will be our main concern—barring unforeseen international complications.

Perhaps it seems a bit early to call attention to these deflationary factors that will be with us some nine months hence. On the other hand, their importance will grow as 1953 progresses and they will not be discussed frankly by the presidential candidates.

Cattle-feeding tips

Success or failure in this year's cattle-feeding operation will be determined largely by *your management*.

Here are some tips—be sure that you buy the right kind of cattle for the feed you want to use. Feed an economical ration. And plan to get your cattle to market in the best season for their class and quality.

Feeders set record

Numbers of cattle on feed in the Cornbelt this winter will the *largest on record*. Increased marketings in 1953 will make for lower average prices than in 1952.

This is offset by the fact that recent feeder-cattle prices have been about 20 percent under those of a year ago. Supply of feeder cattle is larger because of the increase in beef-cattle numbers that has been under way for three years. And feeder demand is reduced because farmers in many areas of the South and West are out of the feeding business for lack of feed. Also contributing to reduced demand is the fact that farmers in Iowa and surrounding areas now have sound grain. They can sell or seal it at a good price. Last year they were forced to feed their soft corn.

The Bureau of Agricultural Economics summarizes by saying that because of lower prices for feeders, *profits could be higher* this winter than last.

Hog prospect better

Hog raisers know the swine market had a rough summer. Storage stocks of pork were high. Strikes and threats of strikes cut into consumer buying power. Unusually hot weather cut the desire for pork. Vesicular exanthema closed some markets and reduced packer buying competition.

The prospect ahead looks *more favorable*. Pork supplies will be 8 to 10 percent smaller this year than last. Consumer demand will be supported by higher wage rates.

Supplies for the winter months may be rather large because many spring pigs were carried on pasture until new corn was available. And farrowings of summer pigs have been large.

Market promptly

This points to one conclusion—*market your hogs promptly* when they reach market-topping weights.

Moderate returns are in prospect for efficient hog producers in 1953. Feed supplies will be adequate but not abundant. Production of pork will be little greater than in 1952—if any greater.

Corn valuable

What about corn? *It's good property*. It will sell higher this winter as big cattle-feeding demand and shipments to the South take hold. Corn is likely to be the cheapest feed—in terms of feeding value. It will put on more gain, pound for pound, than other higher-priced grain.

If you need to buy feed—buy now. Prices will be higher later on.

If you have corn to sell—hold it for a while. In six of the last nine years, lowest corn prices have been in November and December. In seven of those nine years, highest prices have been in July, August, and September.

Lamb feeders wary

Heavy losses from lamb feeding last winter probably will be followed by overcaution this year. This will tend to trim demand for feeder lambs this fall—and to reduce the supply of fed lambs this winter.

Milk prospects good

Milk production will be smaller this winter than last. Demand for fluid milk will be up, making for higher prices. A bigger percentage of milk will flow to fluid markets than ever before.

Floor price increases were granted by P.M.A. for Southern drouth areas, and premiums have been high. *This sets the pattern for you.* **END**

Get Your TIRE FACTS From The Driver's Seat...

Firestone CHAMPION

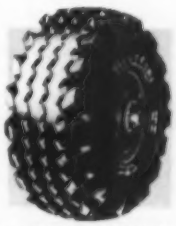
OPEN CENTER TRACTOR TIRES...

PULL BETTER
CLEAN BETTER
DO MORE WORK

THERE's only one sure way to judge tractor tires and that is from the driver's seat. Yes, you can believe your own eyes when you see the Firestone Champion in action . . . you can see that the curved bars grip the soil for a firm, sure hold . . . you can see how the flared tread openings keep the tire clean . . . and you can see how the wide, flat Firestone Champion tread design gives full traction contact which means maximum draw bar pull and longer tread life.

Only Firestone Champions give you so many work-saving, money-saving advantages. Put a set of Firestone Champions to work on your farm and you'll see why they pull better, last longer, and do more work for your tire dollar.

FIRESTONE ALL TRACTION TRUCK TIRE



The all-purpose heavy duty truck tire that gives you more for your money. Built for extra traction and extra mileage both on and off-the-highway.

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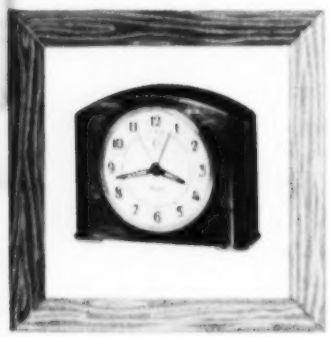
SPHINX ELECTRIC ALARM. Today's trend toward modern wood design . . . beautifully carried out in this elegantly simple clock with rich mahogany-finish case. Clear bell alarm. Only 4¼ inches high. $7.95. With luminous dial, $8.95.



GREENWICH ELECTRIC ALARM. Sleek, simple design . . . blends with modern or traditional setting. Handsome mahogany-finish wood case. Pleasant-tone bell alarm. 4 inches high. $7.95. With luminous dial, $8.95.

Prices do not include tax and are subject to change

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Electric Clocks

Made by the Makers of Big Ben

PRODUCTS OF GT GENERAL TIME CORPORATION

Friend to Friend

Know about money

A lot of remarkably well-designed, new farm machinery will be placed on the market next spring. Some of it will be revolutionary in purpose as well as design. These new machines will raise the question of turning in the old machines or pushing them for a few more seasons.

Science and industry seem to be working together perfectly to put present farming methods out of date. The more rapidly farm practices improve, the greater the rate of obsolescence. Already most farm service buildings need a complete remodeling. Farm service yards are cluttered up with trees and fences to the point where modern laborsaving equipment cannot be handled efficiently or stored conveniently. Nor can such yards be kept clean and neat as their owners would like them. Farmyards need complete reorganization.

At a recent meeting of breeders, I heard many express the belief that some of our livestock are out of step with present needs and should be replaced with something better. Certainly livestock-feeding methods are changing swiftly—and for the better. Sanitation and disease-control progress will wait on the improvement of buildings and service yards.

The new machines, the new or improved buildings, the drained and graded service yards, the new livestock, and the new crops are all heavy consumers of cash. It will be a smart man who knows how to stretch his cash and credit to keep his farm a modern profitmaker. It's going to take a lot of courage to take the new and bigger risks in farming. But the rewards for the good operator are likely to be better than for any normal period of farming up to the present. And you can't farm long with out-of-date materials. It's time for every good farmer to be studying money and banking.

Politics versus economics

We may now reflect on the question of whether politics or economics will dominate our agricultural decisions in the years ahead. There have been many times in the past when politics has done so, and consequently, it is no particular shock to find it in a dominant position at this time. Will it tend to increase in importance at the expense of sound economics?

To reason that all sound economics is useless in the face of more and more political decisions would be a mistake. Nor can we say that all political decisions are economically unsound. It is certain that unsound political decisions must eventually yield to economics or find further political expedients to cover up the original errors. Certainly the rising importance of politics is a clear command for every farmer to interest himself in its practical operation. Likewise, he must have a reasonable grasp of what is really sound economics.

I am especially interested in a new book by Charles M. Hardin, which deals with the politics of agriculture. The author has taken soil conservation as a subject on which it would be assumed everyone would be in agreement. He has studied the critical differences that have come to the surface in the struggle for power in the administration of soil conservation since its establishment. The great differences and conflicts between farm organizations, federal agencies, and state extension services are carefully analyzed as an indicator of the problem of power in agriculture and its impact on our national politics.

Since the author speaks as a researcher in two great educational institutions, his book should be free of political bias. Authority attaches to his writings because of the close contact he has had with the politics of agriculture for the last 12 years.

Without question, the author has no intention of presenting practical politics as a sinister thing. After all, it represents the means by which citizens of a democracy set about getting the legislation they feel is necessary for their group, or for the national welfare. With a presidential campaign in full swing, it is a good time to resolve to become better acquainted with the politics of American agriculture.

The better way

It was on The Wind River Indian Agency, Fort Washakie, Wyoming, that I picked up this motto—"Attempt to do better, what you have to do anyway." I recommend it for white men, too.

Kirk Fox

Why did you change to CAMELS, Ruth Hussey?

R. J. Reynolds Tobacco Co., Winston-Salem, N. C.

More People smoke Camels than any other cigarette!

THERE are good sound reasons for Camel's overwhelming popularity – reasons why so many more people enjoy Camels than any other brand. You'll discover the reasons if you do what Ruth Hussey did – try Camels as your steady smoke for 30 days.

See if Camels don't give you greater cigarette enjoyment than you've ever had before. See how Camel's rich flavor and cool mildness keep pleasing you – pack after pack, week after week!

CAMEL LEADS ALL OTHER BRANDS BY BILLIONS OF CIGARETTES PER YEAR!

When Your Insurance Man Delivers One of These Policies

He provides you with

INSURANCE PROTECTION

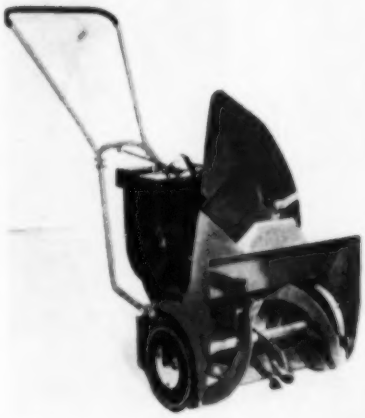
which cannot be surpassed

America Fore
INSURANCE GROUP

For the Name of an America Fore Agent or Claim Office Call Western Union by Number, Ask for Operator 25.

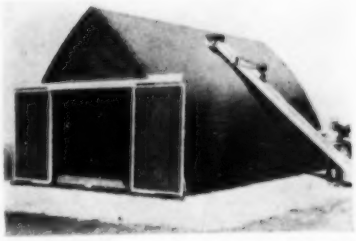
What's new in farming

Tips you can use today

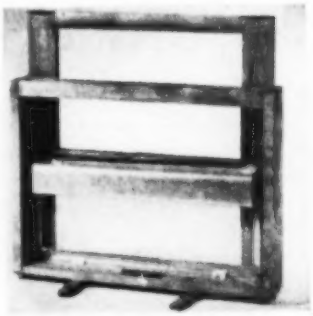


Snowplow. A screw-action rotor in this machine collects the snow and propels it up and out of a directional chute. It has a 17-inch plowing swath and is powered by a 2½-hp engine. The manufacturer states that the plow will operate in snow 2 feet deep and will throw it 10 to 20 feet to the right or left.—*Toro Manufacturing Corporation, Minneapolis, Minnesota.*

A portable pressure greasing unit. Operated by a 6- or 12-volt battery, and weighing less than 40 pounds, this unit will grease farm equipment in the field or at the farmstead.—*G & T Industries, 1128 Barwise, Wichita, Kansas.*

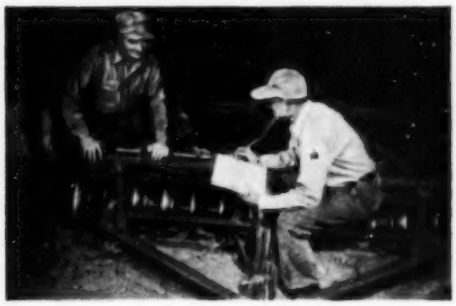


All-purpose granary. The basic 875-bushel unit of this building is 16 feet wide, 12 feet high, and 12 feet long. Capacity may be increased by adding any number of 8-foot extensions. Double walls provide air space and openings for movement of air through stored grain, thus enabling adaptation for drying and cooling by installing a fan and air duct.—*Great Lakes Steel Corporation, Detroit, Michigan.*



Automatic window screen. Mounted on the outside of the lower window sash, the aluminum tube contains the roller screen. As the window sash is moved, the plastic screen unrolls or rolls, always keeping the opening "screened." Units do not interfere with storm windows. Before washing windows, the sill strip can be easily released.—*Lockhart Manufacturing Corporation, Detroit, Michigan.*

IH 5-STAR SERVICE begins for Roy Wishop when his IH dealer stops in to make an after-sale check-up on the new Super C and cultivator. "You and my boy Lowell sure see eye to eye on service," Roy tells his dealer, O. B. Lunde, of Worthington and Lunde, Rockford, Ill. "Why, if I'd let him, he'd be greasing and cleaning the Super C all day."



"5-Star Service saves time for me. My IH dealer sets up a schedule to look over and take care of my McCormick equipment at the time most convenient for me," Roy adds. "Then, it's ready to go when I want to get in the field."

"My IH dealer's servicemen are crackerjacks. They really know McCormick farm equipment. I've learned *from experience* that when I need service to keep my machinery on the job, they're the best help I can get!"

"I bought a McCormick® FARMALL® Super C because I know I can always count on

IH 5-Star Service"

says Roy Wishop, Route 6, Rockford, Ill.

"I don't mind saying I looked around a long time before I bought my tractor," says Roy Wishop. "I decided on a Farmall Super C for two reasons:

"First, the Super C gives me the most work for the money on my 170-acre farm.

"Second, I've found from 31 years' farming experience I can count on my IH dealer for 5-STAR SERVICE. That's important to me, because I do all of my own field work. If I need service, I need it *quick*, so as not to lose time in the field. I've learned you can count on good, prompt service when you use McCormick equipment."

Make a date now with your IH dealer. Put his 5-Star Service manpower on your crop production team. Dependable IH 5-STAR SERVICE is another reason why it pays to standardize on IH farm equipment!

It takes all five to maintain built-in performance

5-STAR SERVICE
MAINTAINS BUILT-IN PERFORMANCE

- ★ IH-Trained Servicemen
- ★ IH-Approved Tools and Equipment
- ★ IH Blue Ribbon Certified Quality
- ★ IH Precision-Engineered Parts
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"SEE YOU AT THE POLLS"

INTERNATIONAL HARVESTER

International Harvester products pay for themselves in use—McCormick Farm Equipment and Farmall Tractors... Motor Trucks...Crawler Tractors and Power Units...Refrigerators and Freezers—Gen'l Office, Chicago 1, Ill.

TIME CHART FOR MARKET HOGS

120 DAYS 140 DAYS

Hogs WITH TERRAMYCIN in ration reached 220 lbs. in 128 days from weaning

TERRAMYCIN SAVED 21 FEEDING DAYS

Hogs with NO TERRAMYCIN in ration required 149 days to reach the same weight

Terramycin in the feed sends hogs to market 21 days sooner, as you see from the chart above. Groups covered by the chart were fed from weaning to 220 pounds. Feed was the same for all, except one group received Terramycin and the other did not. You can see what a difference it makes. More money in the pocket, of course, because Terramycin helps produce more pork for your corn, in less time and with less labor. Ask your feed dealer. Be sure the feeds you buy contain Terramycin, best antibiotic for hogs.

Terramycin

...from the world's largest producer of antibiotics

Pfizer

Chas. Pfizer & Co., Inc., Brooklyn 6, New York
Headquarters for antibiotics and vitamins for animal health and nutrition

What a housewife thinks of PARITY

Here are highlights from the second in our series of radio programs,* Farm News Conference. *This is how we tell your true story

Participants: Moderator, Louis Bromfield; panel members, Mrs. W. Spitler, housewife of West Lafayette, Indiana; John Peterson, Indiana farmer; Dr. Earl Butz and Dr. Don Paarlberg of the Department of Agricultural Economics, Purdue University.

Bromfield: This program is dedicated to a better understanding of the problems and achievements of the farmer who feeds us and also provides so great a share of the buying power which supports our industry. It is directed to the non-farmer, the housewife, and the consumer in general. Now, I think Mrs. Spitler has a question.

Mrs. Spitler: Yes I do; it's concerned with the price of food. For instance, a sirloin steak costs about $1.25 a pound. I think that is too high. We hear a great deal about the word "parity" and food manipulations. Does parity have anything to do with the present high cost of meat?

Bromfield: I think Doctor Paarlberg has an answer.

Paarlberg: I think the best way to define parity is to say that it is an idea. It's an idea that prices of farmers' products should rise and fall with prices of things the farmer buys. If other prices come down, farm prices should come down.

Bromfield: I would like to ask Mr. Peterson why farmers like parity?

Peterson: Lots of us remember back in the days of 1933 when farm prices were 55 percent of parity. Lots of us lost our farms then. Since that time there have been minimum-wage laws for labor, unemployment insurance, and other helps for city folks. It seems to us that the government should do something for farmers, too.

Bromfield: I think you're right. Now, let's get back to Mrs. Spitler and the steak at $1.25 a pound that seems to be bothering her.

Mrs. Spitler: It is bothering me. And, though this explanation of parity is clear, that's a high price for meat. Is it due to a shortage?

Bromfield: I don't think that's it. Let's ask Doctor Paarlberg about this so-called high price of steak.

Paarlberg: The reason steak is high-priced is that many people have a lot of money and housewives are bidding against each other. Price has a job to do in regulating products and their distribution.

Bromfield: I think that is clear. Mrs. Spitler was implying that perhaps the price was high because the farmer wasn't doing his share in production. What do you think about that, Mr. Peterson?

Peterson: In 1951, farmers produced 140 pounds of meat for each person in the United States. That compares with 126 pounds in 1935 through 1939. This increase is just as evident in other products.

Bromfield: I think Doctor Butz could give us some figures on so-called expensive food.

Butz: Food is expensive in a relative way. There is no country on the face of the earth today where a workingman spends so small a portion of his salary on the food he eats as in America.

Bromfield: Now, food prices of today lead many consumers to believe that the farmer must be getting rich. Just how much of the consumer's dollar does the farmer get?

Paarlberg: If we lump all food products together, the farmer gets about 48 cents out of the dollar the consumer spends for this food. The thing that determines how much the farmer gets is the amount of processing required to put the product in shape for the consumer.

Bromfield: Many people get a part of the dollar the consumer spends for food. I'd like to ask Doctor Butz a question. Why was the Farm Foundation Committee, of which you were a member, opposed to parity for protecting the farmer?

Butz: The committee made this recommendation completely abstracted from political realities. However, they knew the politics of parity were such that it would be difficult to abandon the concept. The committee made this recommendation because they wanted to maintain a free market. They did not want to get back to a system of rationing like we had in the last war or a system of controls like we had between wars.

Agriculture's public relations:

The editors of *Successful Farming* are making the first nationwide effort to acquaint city folks with the good job agriculture is doing for them. Hear these programs each Saturday from 11:30 a. m. until noon on most Mutual Broadcasting System radio stations

Brushing Teeth Right After Eating with
COLGATE DENTAL CREAM
STOPS BAD BREATH AND STOPS DECAY BEST!

Colgate's Instantly Stops Bad Breath In 7 Out of 10 Cases That Originate in the Mouth!

It cleans your breath while it cleans your teeth! Brushing teeth right after eating with Colgate Dental Cream gives you a *clean, fresh* mouth *all day long!* Scientific tests *prove* in 7 out of 10 cases, Colgate's *instantly* stops bad breath that originates in the mouth. No other toothpaste has proved so completely it stops bad breath. No other cleans teeth more effectively, yet so safely!

Yes, the best way is the Colgate way! In fact, brushing teeth with Colgate Dental Cream right after eating is the most thoroughly proved and accepted home method of oral hygiene known today. The Colgate way stopped *more* decay for *more* people than ever before reported in dentifrice history! Yes, to help stop bad breath and tooth decay at the same time, the *best* way is the *Colgate* way!

PURE, WHITE, SAFE COLGATE'S WILL NOT STAIN OR DISCOLOR!

The farmer's Washington

By Richard Wilson

- **New Congress must tackle perishables support problem**
- **Basic federal farm program is here to stay**
- **Soil-conditioner makers warned about claims**

Assignment. Members of the new Congress, which meets in January, got one clear assignment out of the 1952 presidential campaign.

It is to figure out some reasonable and workable method for supporting the price of perishable farm commodities.

Both parties are clearly and firmly on record with pledges to do something about this complicated problem.

Most members of Congress, *regardless of party affiliation*, have long known that sooner or later they would have to come to grips with it.

As a matter of fact, they have wrestled with it, off and on. The potato fiasco was the result of one such effort. Pork, eggs, and other semiperishables have been purchased by the government in price-support efforts.

But a satisfactory system for both supporting the price and handling the surplus commodities without waste has never been developed.

The Brannan Plan, in part, attempted to solve the problem of what to do with the surplus. Other proposals have been made, but they smacked too much of stiff production controls.

It's no simple problem, but the lawmakers will have to go to work on it again and try to come up with some sort of satisfactory solution.

Another issue. An important question brought to the fore during the campaign was that of continuing 90-percent support for basic commodities.

That level of support, under the present law, will continue through 1954. But it has long been the practice of Congress and the Department of Agriculture to try to give the farmers notice well in advance of any change in the support level. That's so they will have the information when they plan their crops for the next season.

The question could be left over until the spring of 1954 without handicapping farmers in making their 1955 planting plans.

But 1954 will be another election year for all members of the House of Representatives and a good many members of the Senate.

Most lawmakers will prefer to get this controversial question well behind them before they make another campaign.

Here to stay. If any real doubts were raised—and they never should have been—the campaign left one thing indelibly clear. The basic federal farm program is as *permanent* a part of the federal government as the rural mail-delivery services.

There are differences of opinion as to how it should be administered.

In the heat of a campaign, opposing politicians try to make it appear that the other side would destroy the program if it gained control.

But as a matter of fact, the lawmakers themselves know and recognize that 90 percent of the program is here to stay. Price supports, soil conservation, loan programs, research, and all those fundamental programs are here to stay as long as farmers have need for them and want them.

Where differences arise, they grow out of local and sectional problems to a far larger extent than from opposing political philosophies.

Help wanted. A broad new road leading to travel in foreign lands, adventure and education, plus well-paying jobs, is opening up to graduates of agricultural colleges.

The Point Four Program is well out of the initial stages of development and is expanding. Along with expansion, the Department of Agriculture is having a hard time finding trained personnel for the jobs.

Trained specialists in such fields as agricultural engineering, soil use, reclamation, range management, and marketing are in demand.

The posts are located in nearly all the countries of the Middle East. The pay ranges from $5,000 to $11,000—plus housing and living allowances. Men and women over 30 years of age are preferred but exceptions will be made.

The office of personnel of the Department of Agriculture in Washington has the answers to all questions of prospective applicants.

Slow signal ahead. The warning is out to manufacturers of new chemical soil conditioners to go easy on their claims of what their products will do.

The Federal Trade Commission al-

[*Turn to page 16*

"I sure haul plenty of stock in my Dodge *'Job-Rated'* truck," says Bowater Pearson. "I use it to haul other things like gravel, grain, lime and fertilizer. It's right at home on the farm!"

"Dodge out-performs any truck I've had," says Indiana farmer

"I can always count on my new Dodge truck," says farmer Bowater Pearson of Attica, Indiana. "Why—my Dodge sat out all winter and I never had a bit of trouble starting it. In every way it's a good dependable truck.

"I've driven my Dodge further in less than six months than the average farmer drives in a year. And I use the truck for just about every farm hauling job imaginable. Take it from me, my Dodge out-performs any truck I've ever had!"

★ ★ ★

Bowater Pearson is but one of countless farmers across the country who has discovered the dependable, cost-cutting service of Dodge trucks.

Next time *you're* in town, make it a point to get the full story on Dodge "*Job-Rated*" farm trucks. Drop in to see your Dodge dealer, a friendly fellow who's more than willing to lend a helping hand on your hauling problems.

"My Dodge is always on the go. Take this morning, for instance. I loaded 32 head of 285-lb. hogs onto that Dodge *'Job-Rated'* truck and left the farm at 10:30. Then I drove over to Klondyke, about 30 miles away, unloaded and still got back before 1:00! I averaged around 50 miles an hour over rough country roads."

"My Dodge truck turns shorter than any truck I've ever owned. That Dodge maneuverability is really something to see around the farm. And the Dodge drives and rides real nice. Fact is, I'd just as soon drive this truck as I would my car! I sure made a smart move when I traded in my old truck for this Dodge!"

DODGE "Job-Rated" TRUCKS

How to give the children you love

A HEAD START ON THE FUTURE

A Complete Library

Now, you can give the children dearest to your heart ten of the world's most wonderful books at remarkably low cost. A complete library of beautifully illustrated, sturdily bound volumes guaranteed to completely delight any boy or girl.

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These are books every child should have the opportunity to read. Good books, that encourage children to discover a pleasure in reading that lasts all their lives. Books for bright young minds to grow on.

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Children love them. The pictures are colorful and fascinating. The stories are warm-hearted and alive. Told by many of the greatest story-tellers of all times.

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Yes, now you can start your children reading and appreciating the wonderful books that mean so much for a life time. Through this low-cost plan you receive one book each month for ten months. Beginning this Christmas with Dickens' *Christmas Carol*, each book will be sent directly to the child. A gift card in your name will be sent telling him about the books.

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AT THE BACK of the NORTH WIND by George MacDonald

THE ADVENTURES OF PINOCCHIO by C. Collodi

THE ILIAD OF HOMER Retold by Alfred J. Church

RIP VAN WINKLE AND THE LEGEND OF SLEEPY HOLLOW by Washington Irving

THE PRINCESS AND THE GOBLIN by George MacDonald

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The Perfect Gift • Enroll your child today

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Please send gift card in my name and enroll:

☐ Each month for 10 months bill me for $2.00 for each book.

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Name of Child _____ Name _____

Street _____ Street _____

City _____ Zone _____ State _____ City _____ Zone _____ State _____

Farmer's Washington

From page 14

ready has filed a complaint against one company. Other complaints are in the making in the Post Office Department. They deal with exaggerated claims made in advertisements.

No question is raised regarding the reaction the chemicals have on some soils. It is the amount of the stuff required to produce the results claimed that is under examination.

Soil experts of the Department of Agriculture have a keen interest in the outcome. At the same time, they are extremely cautious about publicizing the results of their tests.

Properly offered to the public, they say, the new chemicals could find a valuable place in the agricultural industry. Improperly presented, the development and use of the chemical conditioners could be ruined before the price can be brought down to a level where they can be useful.

New growth stimulant. Farmers have been getting acquainted with the use of the so-called wonder drugs—antibiotics—for speeding up the growth of their farm animals.

Now scientists are discovering that terramycin and penicillin will increase the growth of certain plants as well as increase seed germination.

Soil treated with stable forms of penicillin has produced radishes two and three times larger than normal.

Machinery outlook good. Department of Agriculture officials, who keep a close eye on farm-machinery production, have lost the worried look they wore a couple of months ago.

They see *adequate* supplies of most types of farm machinery for 1953.

Steel allotments now seem to offer no problem, and labor troubles in the machinery plants are smoothing out.

The fertilizer outlook for next year, also, is described as better than it was for the past year. New plants are coming into production.

Barbed and woven wire for fencing still are on the short-supply list and are expected to stay there. END

STANDARD

FARM NEWS-GRAPHIC

RAISING BOYS AND FUR COATS!

Still in the driver's seat. The young tractor pilot in the picture at left, taken in 1938, is Paul Miller of Vernon Center, Minnesota. It's 1952 in the picture on the right, only this time Paul Miller is at the wheel with his father standing by. Mr. Miller says, "Standard Oil products have kept this tractor in good shape since I bought it 24 years ago." Year after year friendly service and quality products keep him on the Standard side.

Hobby becomes big business. Ralph Sheetz of Huntington, Indiana, started raising mink as a hobby in 1932. The hobby has grown into a big business. In 1951, Mr. Sheetz raised 2100 pelts. Preparing these expensive animals for market requires the very best equipment and materials. That's why Mr. Sheetz uses STANDARD Heater Oil in the heating of the feed, slaughter, and pelting rooms. And with this big investment to protect, he needs service that he can count on. He gets it from his Standard Oil Man.

News and Notes FOR NOVEMBER

The average annual gasoline consumption per farm in the U.S. is 1,786 gallons. Do you know how close you come to that figure?

Because gasoline is so important to the farmer, Standard Oil Company is always endeavoring to improve its farm service. Standard Oil agents receive instruction to learn how to improve fuel economy, how to increase tractor efficiency through the use of proper fuels and lubricants. If you're having tractor troubles, talk to your Standard Oil Man. He may be able to help.

• • •

After all's said and done you can't beat quality. If you're not using it now, why don't you switch over to RED CROWN Gasoline, the famous KING-SIZE GAS BUY? You'll like the easier starts and faster warmups it gives you on crisp Fall mornings.

• • •

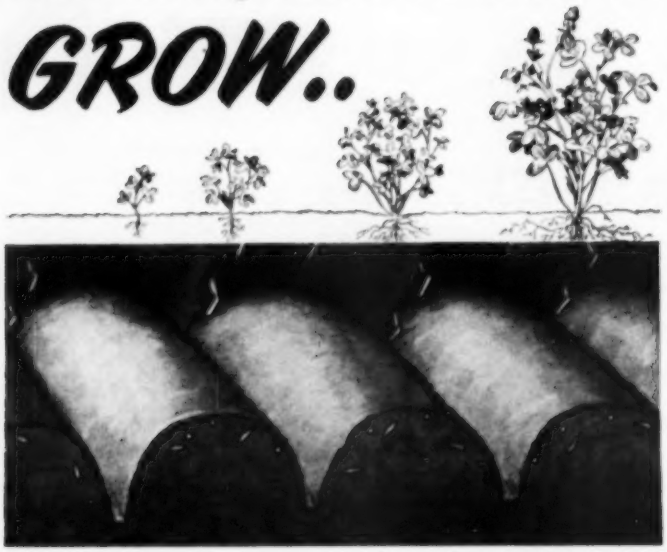
There's no secret ballot when it comes to farmers expressing their choice on a motor oil proposition. Year after year hundreds of thousands of Midwest farmers vote to accept the benefits of Standard's Special Farm Deal.

Day after day, your Standard Oil Man is campaigning for your vote of confidence. He's got three planks in his platform, and they're good ones: (1) Quality products. (2) Friendly service. (3) Dependable delivery.

Your Standard Oil Man

STANDARD OIL CO. (INDIANA)

Give every seed a chance to GROW..

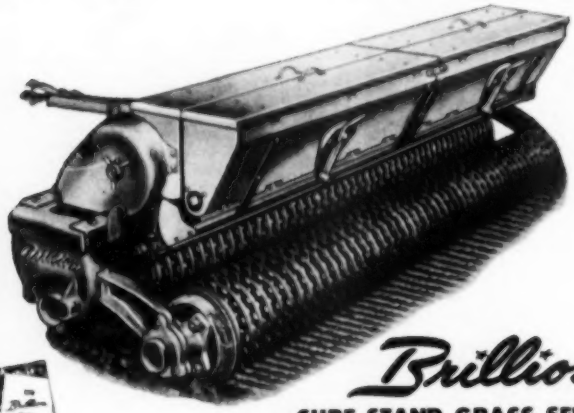


Get a good catch of grass on less than half the seed

WITH the Brillion Sure-Stand Seeder you save more than half the seed required by conventional methods. It conditions the seedbed especially for grasses and legumes — and sows them accurately within the top ½ inch of soil. This gives every seed a chance to grow. Seeds are close to food and moisture . . . in a shallow bed where they can easily work their way to the surface.

The Sure-Stand crushes lumps and clods . . . firms the soil around each seed. Its precision-built seedmeters distribute small, coarse or chaffy seeds at the rate you select . . . accurately — without skips or bunching, and without waste or leakage.

See your Brillion dealer today. Get the complete facts on how the Sure-Stand can save seed, time and money on your farm. Write for folder.



Brillion

SURE-STAND GRASS SEEDER

Pays for itself in two days' use with the seed it saves!

BRILLION IRON WORKS, INC., Dept. SG1-11, Brillion, Wisconsin

Please send me complete information on the Brillion Sure Stand Seeder as well as the items checked below. I seed about ..... acres for hay and pasture each year.

☐ **Brillion Pulvi-Mulchers**

☐ **Brillion Pulverizers**

Name .....

Town ..... RFD .....

County ..... State .....

Year-round Thanksgiving

A Thanksgiving I shall always remember was a wonderfully warm and sunny one in May. Nearly 100 men and women and exactly 48 tractors swarmed over the Harold Johnson place that day. Close to a month's field work was out of the way in less than 10 hours. And I remember Harold, too, his face still wearing the marks of recent illness, as he said good-bye to us in the late afternoon and tried to put his feelings into words.

"Thanks," he said. "I don't have to tell you what this means to us. Not just the work that's been done—it's done something for me, better than medicine." He paused a moment and went on:

"Today, for the first time, I think I understand what 'thankful' means."

Thanksgiving in May? Yes, or at least I thought of it as Thanksgiving. For everyone helping on the Johnson place that day was openly demonstrating thankfulness for his own health, his ability to work, or perhaps for similar help that he may have received at some time in the past. And it took only a quick glance at the faces of the folks starting for home that afternoon to see that these were happy people who had taken a few hours from their own pressing work in a combined effort to ease a friend over a rough spot.

At this traditional Thanksgiving season, it's a welcome task for most of us to plan the holiday dinner with all of the trimmings. It's only natural, too, that our gratitude is chiefly for the many things we possess as well as the security and freedom our country gives us.

But, in addition to, and perhaps above these *things* it seems to me that we can be thankful for *people* and what they mean to us. Members of our families, friends, casual acquaintances, even strangers, contribute more than we sometimes realize to our welfare and happiness. Who but a hermit would choose to be without companionship?

Help of the sort Harold Johnson received is easily remembered. But much of what is done for us is far from spectacular —it may even pass by unrecognized.

Another daily gift is the trust others place in us—a faith that makes it possible to carry on ordinary business dealings with ease and confidence.

What could be a more appropriate time than Thanksgiving to take a sort of inventory and admit to ourselves the world of thanks we owe to and for others? Once fully aware of this, we're likely to find ourselves seeking opportunities to return them in ordinary ways and by means that may require more of us in effort and imagination. With some conscious planning, we can find many ways to practice Thanksgiving from one November to the next.—*Frances Barker.*

You'll build or remodel better with Gold Bond

Gold Bond Farm Bulletin

WEATHER
Ideal for adding extra rooms your family needs!

Published by NATIONAL GYPSUM COMPANY, Buffalo 2, New York

TIME TO "TRADE-IN" YOUR OLD ATTIC

Make two snug bedrooms from waste space!

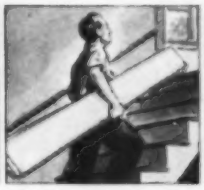
It's an easy job to trade in an old attic for welcome new living space. Start by taking a rough plan (with measurements) to your local Gold Bond lumber and building material dealer. Chances are he'll show you a trick or two to squeeze extra space out of your attic. Then he'll show you some remarkable building materials . . . Gold Bond Insulation Plank and Tile already painted in either ivory or a variegated blend of four colors — or large panels in ivory. You'll find many sizes to choose from. Gold Bond Insulation Board gives you effective insulation and no further decoration is necessary . . . just put it up and move in the furniture! Get started on this "trade-in" bargain today!

Here's how to do it the Gold Bond way!

Measure the attic walls and ceiling. This will tell you how much material you'll need . . . and also determines where to nail furring strips.

Take measurements to your Gold Bond dealer. He'll show you factory painted Gold Bond Insulation Plank and Tile in harmonizing colors.

Nail up furring strips — ordinary 1"x 3" wood strips that anybody can handle. This gives you a stapling surface for Gold Bond Plank and Tile.



Gold Bond Insulation Plank and Tile are lightweight. The Plank comes in four widths starting at 8". Tile comes in several sizes.

Interlocking beveled edges fit together quickly and easily — hide staples or nails to give you a neat, good-looking job.

Even the ceiling job is a cinch . . . when you use Gold Bond Insulation Tiles. There's no heavy lifting — anyone can do it.

OTHER GOLD BOND REMODELING PRODUCTS

Gold Bond Hardboard — A grainless wood board that will not warp, crack, split or splinter. Hundreds of uses.

Gold Bond Insulation Sheathing — Asphalt-coated and aluminum painted, provides insulation, weather resistance and structural rigidity.

Gold Bond Gypsum Wallboard — Strong fireproof panels for interior walls are easily installed — take any kind of decoration. Gold Bond Tape Joint System completely conceals joints for a smooth surface.

Masonry Paints — There's a complete line of Gold Bond paints for every type of interior or exterior masonry finish.

ADD-A-ROOM NOW!
with Gold Bond

Complete Protection

Armadillo, the hard-shelled, burrowing mammal found from Texas to Argentina, is protected from its natural enemies by close-fitting, hinged bony plates. Rolled into an armored ball, the armadillo is safe from eagles, coyotes and mountain lions.

Your car's engine needs protection from its natural enemies, too—the gritty road dust drawn in from the outside—the carbon and sludge formed inside while the engine is running.

You can protect your engine by using an AC *Aluvac* Element in your oil filter. It removes sludge and dirt particles as fine as 1/100,000 of an inch—keeps oil clean and safe.

When the oil filter element on your car needs changing, get AC *Aluvac*—the finest engine protection that your money can buy.

AC OIL FILTERS

WITH ALUVAC ELEMENTS

FACTORY EQUIPMENT ON

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. . . and standard or optional factory equipment on Cadillac, Chevrolet and Oldsmobile cars—Chevrolet and GMC trucks

AC SPARK PLUG DIVISION GENERAL MOTORS CORPORATION

THE Farm

By Gus Larson

Did the cowboy introduce the branding iron to the Western range? How much is the average United States farm worth? Did you go to school as long as the average American? If you want to see how your farm measures up in dollar value to the average United States farm, let's begin the questions.

Score 5 points for each correct reply. If you score (a) 85 to 90 points—excellent. (b) 75 to 80 points—very good. (c) 50 to 70 points—passed. (d) 45 points or below—better luck next time.

1. The American cowboy did not originate the branding iron. Branding in the Southwest was first done by early Spanish explorers. Statements are (a) false (b) true.

2. Henry Hesker said: "Polled Milking Shorthorns do not give as much milk as do horned ones." Fred Sisk replies: "Nonsense." Who is right? (a) Henry (b) Fred.

3. Did you go to school as long as the average American? In 1950 the average American had completed (a) 9.3 years of school (b) 12 years of school (c) 6 years of school.

4. Mrs. R. Hedstrom says, "Raw milk is better than pasteurized milk." Mr. Hedstrom disagrees: "Pasteurized milk is better." Who is right? (a) Mrs. Hedstrom (b) Mr. Hedstrom.

5. Lean animals live longer than fat animals. Statistics also show that lean people live longer than fat folks. Statements are (a) true (b) false.

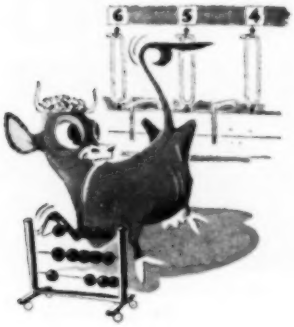
6. U.S.D.A. reports the average United States farm is now worth $17,000 to $18,000. What is the average total dollar value of land and buildings per acre? (a) $150 (b) $81 (c) $37.

7. Vern Jacobson said: "Getting too much antibiotics in feeds will not make them toxic." Brother Bill argues: "Too much antibiotics will make feed toxic." Who is right? (a) Vern (b) Bill.

8. One of our presidents was buried without funeral services. Who was he? (a) Martin Van Buren (b) Andrew Johnson (c) General Zachary Taylor.

9. United States farmers (early in century) harvested over 100,000,000 acres of corn a year for several years. How many acres of corn do you think were harvested in 1951? (a) 110,310,000 (b) 81,306,000 (c) 60,750,000.

Quizbox



10. Cows can be given numbers and then trained to come to milking parlors by these numbers in a few days. This statement is (a) true (b) false.

11. When using milk replacers to raise pigs, do milk-replacer manufacturers now recommend that you wean a litter of pigs at the age of (a) 2 days (b) 2 to 3 weeks (c) 6 weeks?

12. How much does the farmer get for the wheat in a 15-cent loaf of bread? Would you guess (a) 5 cents (b) 3 cents (c) 7 cents?

13. Some folks argue against "military men" for president. How many of our presidents have had some military experience? Would you put the number at (a) 5 (b) 3 (c) 17?

14. Every farmer has heard of Newcastle disease in poultry. Would you guess that cattle and humans (a) can contract this disease (b) cannot get this disease?

15. The average American consumes from 40 to 44 pounds of fat (all forms) per year. How much of this amount is butter? (a) 8½ pounds (b) 12½ pounds (c) 15½ pounds.

16. How many tons of chopped hay must a farmer put up before it is economical for him to buy his own equipment? Would you say (a) 30 tons (b) 40 tons (c) 65 tons?

17. Future Farmer Bill Denton writes: "Left hams are better than right hams because hogs scratch with their right legs and this toughens muscles." Is Bill (a) right (b) wrong?

18. When Columbus brought horses to the New World, there were (a) only a few Indian horses in the Western Hemisphere (b) no horses in the Western Hemisphere.

Answers on page 24

Never Shirk Hard Work

You just can't work your truck or tractor engine hard enough to make AC Plugs shirk their job. They're the heavy "draft horses" of the spark plug field. They're the only spark plugs with patented *CORALOX* Insulator, which provides all these advantages over any previous type:

• wider heat range • greater strength • better electrical insulation • greater resistance to fouling • longer spark plug life

AC Spark Plugs are original factory equipment on more new cars and trucks than any other make of plug.

For better service and longer life in your car, truck or tractor, be sure to use AC Spark Plugs with patented *CORALOX* Insulator.

AC SPARK PLUG DIVISION GM GENERAL MOTORS CORPORATION

"Happy-ironing" lesson
Drop one section of **SATINA** into hot water starch paste.

No sticking or pulling. **SATINA** makes our iron "fly on wings."

Graduate to "SPEED-IRONING." When you buy starch, buy **SATINA**, too.

- Clothes stay cleaner; look newer
- Costs less than 2¢ a starching
- Easy directions with package

Guaranteed by Good Housekeeping

A Product of General Foods

Please accept for ONLY 10¢

10 plastic clothespins in assorted colors—plus full-size package of SATINA—all for one-third less than regular price! Offer made to introduce you to Speed-Ironing with SATINA in your starch. Mail coupon with 10¢ to: SATINA, Dept. V, Box 829, New York 46, N.Y.

NAME_____

STREET_____

CITY_____ STATE_____

Offer expires February 28, 1953

What's new
in homemaking

"Pres-Toe" broiler is the name given to a new feature in Tappan gas ranges. Stooping is eliminated—just step on the pedal and the broiler drawer rolls out automatically. Broiler comes out *all* the way so foods at the back are in full view and easy to turn. The same range has a handy new "lid basket" in a storage compartment to the right of the oven. The lid basket has nylon rollers, pulls out smoothly to put lids within easy reach. Oven door lifts off for easy cleaning. Buy this gas range at hardware, department, and appliance stores.—*The Tappan Stove Company, 250 Wayne St., Mansfield, Ohio.*

New electric clothes dryer has "Filtrator" device to prevent lint and moisture from escaping into the room. Room air circulating over the "Filtrator" tubes causes warm, moist air (with the lint it carries) to condense inside the tubes so it can be drained into a drip tray, or directly to a floor drain. No need for special venting or plumbing—locate the dryer in any room. Porcelain-finished inside and out. Timer can be set up to 85 minutes—no resetting for long-drying loads. Both 220- and 110-volt models are available. Delivered price is about $249.75.—*Frigidaire Division of General Motors Corporation, Dayton, Ohio.*

A jar opener that's out of sight but always handy, this practical device is installed beneath a wall cabinet. Simple to use for any size screw-type lid—either for loosening or tightening. Plain lids and bottle caps can also be quickly removed with this opener. Postpaid price: $1, from *Wilco Products, 15126 Raynetta Drive, Sherman Oaks, California.*

Bowmaking gadget, "Bo-Du," makes beautiful rosettes and pompons for gift packages. Use with any kind of ribbon. Comes with easy-to-follow directions. Buy at ribbon counters in stores for 29 cents, or add 6 cents postage and order from *McGee and Willig, 1136 Edgerton St., St. Paul 1, Minnesota.*

A new home freezer styled like a refrigerator has a roomy, reachable frozen-food storage area, takes up little floor space. Manufacturer gives five-year protection plan on food spoilage due to mechanical failure plus five-year warranty on the refrigeration system. Pictured is the 12-cubic-foot size; holds 420 pounds assorted food. Also in 18- and 25-cubic-foot capacities. All models have three shelves and these are fast-freezing. Cold coils are in top and bottom of cabinet, too. Cost of freezer shown here is $499.50 in most areas.—*Amana Refrigeration, Incorporated, Amana, Iowa.*

Ladies! Dreft's New "Farm Savings" Plan Makes

Every Dreft boxtop worth $1.00 or more

Save a dollar or more on any of these always-useful items when you order from Procter & Gamble and enclose necessary Dreft boxtops

ORDER NOW FOR CHRISTMAS

STERLING SILVER MUSTARD SEED CHARM BRACELET

Retail Price $4.75 (incl. tax)

Sterling silver, link chain bracelet with attached lucite charm containing mustard seed, token of faith. Inspired by Bible quotation: "If ye have faith as a grain of mustard seed—nothing shall be impossible unto you."

Yours for only $2.00 (tax included) with one Giant or two Large Size Dreft boxtops.

CANNON EMBROIDERED TOWEL SET

Retail Price $2.98

Cannon 20" x 40" terry cloth bath towel, face towel and wash cloth. Set comes in white, and each piece has multi-colored, floral patterned, chenille embroidery.

Yours for only $1.75 with one Dreft boxtop. (Large or Giant Size)

CHEF'S BARBECUE TOOLS

Retail Price $3.49

Three man-sized tools—spatula, spoon, and two-prong fork. Each, 22" long. Smooth, stainless steel with wooden handles strung with rawhide thongs.

Yours for only $2.00 with one Dreft boxtop. (Large or Giant Size)

SET OF 4 FLOWER POT SLIP COVERS

Retail Price $1.95

They dress up dull clay flower pots in bright colors and shapes. Made of washable vinylite plastic, come shaped like tea pot, sugar bowl, and in other styles, in bright green, yellow, red or blue.

Yours for only 88c with one Dreft boxtop (Large or Giant Size)

4-WAY SAW SET

Retail Price $2.98

Three blades with 4 cutting edges; one 15" general woodworking; a 15" keyhole blade for curves and corners; a 16" blade with heavy duty edge, and hacksaw edge. All fit together for storage.

Yours for only $1.50 with one Dreft boxtop. (Large or Giant Size)

MOTHER AND DAUGHTER DOLLS

Retail Price $2.49

Brunette beauties dressed identically in pale blue rayon satin. Heads and arms move, big blue eyes open and shut. Mother is 8" high and daughter is 5½" high.

Both for only $1.00 with one Dreft boxtop (Large or Giant Size)

DREFT'S NEW "FARM SAVINGS" PLAN

. . . offers you honest-to-goodness savings on all items listed. Save your valuable Dreft boxtops and send for as many items as you want. Watch for future offers under Dreft's "Farm Savings" Plan.

FREE FOLDER COMES WITH FIRST ORDER: It describes many additional items on which you can save a dollar or more with Dreft boxtops.

New DREFT saves you hours of work every week

Gives you all the grease-cutting magic of the best-known washday detergents—AND a new safety for your hands.

Can't be beat for dishes! No soap, no other detergent can get dishes cleaner than Dreft. Dreft cuts grease in a flash! Gets dishes and glasses gleaming bright—without wiping. Dreft leaves no soapy scum—no film. No greasy dishpan ring.

Wonderful for dairy equipment! Cream separators, milking machines, pails and strainers come sparkling clean without hard scrubbing! Dreft prevents formation of milkstone that robs you of valuable butterfat. Cream quality stays high—you make full profits!

Yet so SAFE for lovely hands! With all its grease-cutting magic, Dreft is completely free of harsh ingredients! Your hands will love Dreft!

SAVE DREFT BOXTOPS LIKE DOLLAR BILLS

Get DREFT TODAY—the finest suds you can buy for your dishes and dairy equipment. And so SAFE for hands.

Special Detergent for Dishes and Dairy Equipment

Dreft "Farm Savings" Plan Order Blank

MAIL TO: DREFT, (Dept. 6) P. O. Box 83 Cincinnati 1, Ohio

I enclose $_____ and _____ DREFT BOXTOPS (____ Large Size ____ Giant Size) for the items checked. (Write in quantity, if you want more than one of any item. Please send check or money order—not cash or stamps.)

- ☐ Sterling Silver Mustard Seed Charm Bracelet
- ☐ 4-Way Saw Set
- ☐ Chef's Barbecue Tools
- ☐ Set of 4 Flower Pot Slip Covers
- ☐ Cannon Embroidered Towel Set
- ☐ Mother & Daughter Dolls

Name _____ PRINT CLEARLY

Address or RFD. No. _____

City _____ State _____

Dreft's new "Farm Savings" Plan is confined to the continental United States only. Subject to applicable state and local regulations. All orders for above items must be received not later than July 1, 1953 to be accepted.

Advance Order Plan Saves You Money!

Phillips 66 Offers Discounts on Oils and Greases

HERE'S HOW THE PLAN WORKS: Order your Phillips *66* Motor Oils, Gear Oils, and Greases *now*. Set a delivery date before May 31, 1953.

The single delivery saves us time, trouble and handling expense. So we can offer you these special benefits:

- **Money-Saving Discounts**
- **Discounts on Orders as Small as 15 Gallons**
- **Protection against Price Increases**
- **No Down Payment—No Cash Outlay**
- **The Products You Need When You Need Them**

And most important, you get famous Phillips *66* Products . . . products you can depend on. You get Phillips *66* Heavy Duty Premium Motor Oil . . . the oil that's so good it actually *surpasses* manufacturers' recommendations for all makes of cars . . . an oil that's truly *heavy duty* so it will protect your truck and tractor, too.

See your Phillips *66* Tank Truck Driver. Get your order in and save on Phillips *66* Motor Oils, Gear Oils and Greases.

Answers to farm quizbox

Questions start on page 20

1. (b) is correct. Branding of cattle was practiced 2,000 years before Christ, in Egypt and China.

2. (b) is correct. Horns have nothing to do with milk production.

3. (a) is correct. The Bureau of the Census reports the average American had completed 9.3 years of school in 1950.

4. (b) is correct. Pasteurizing destroys dangerous bacteria that may be in raw milk.

5. (a) is correct. Life insurance statistics show fat people suffer more degenerative diseases than do lean people, live shorter lives.

6. (b) is correct. U.S.D.A. economists report total dollar value of land and buildings per acre to be $81.64 on the average.

7. (a) is correct. According to Dr. H. R. Bird, U.S.D.A., the danger of getting too much antibiotics in feeds is slight.

8. (c) is correct. The body of President Taylor was transferred from the White House to a Louisville family vault without burial services.

9. (b) is correct. The publication *Crops* reports 81,306,000 acres were harvested in 1951.

10. (a) is correct. At Michigan State College 80 cows learned to answer to numbers in a few days.

11. (b) is correct. Milk-replacer manufacturers believe weaning pigs at 2 to 3 weeks gets best results when using milk replacer.

12. (b) is correct. The farmer gets 3 cents for the wheat in a 15-cent loaf of bread.

13. (c) is correct. Over half (17) of United States presidents have had some military experience.

14. (a) is correct. Cattle and humans have contracted Newcastle disease.

15. (a) is correct. U.S.D.A. economists report that butter consumption at present time is about 8½ pounds per person per year.

16. (c) is correct. Purdue University studies show a farmer must put up 65 tons of chopped hay before it pays to buy equipment.

17. (b) is correct. Packers say there is no difference in right and left hams because hogs scratch with both legs.

18. (b) is correct. When Columbus landed there were no horses in the Western Hemisphere.

"I Save Work, Save Cash, stretch My Grain and Have Better Hogs with MURPHY'S CUT-COST CONCENTRATE FOR HOGS"

I do most of my own work on this 240-acre farm, but it's easy to feed my 260 hogs and save work with Murphy's Cut-Cost Concentrate. Everything needed to balance my grain is in one bag. Then all I have to do is fill the self-feeders. It's economical feeding, too, for I've paid out less than 2c per pound of gain, and the corn and oats saved have more than paid for the Cut-Cost. We're raising 266 hogs from 25 sows, and at 4½ months there isn't a runt in the bunch. I save work, save cash, stretch my grain and have better hogs with Murphy's Cut-Cost Concentrate for Hogs.

TED PANNING—*Hooper, Nebraska*

LET MURPHY'S SIMPLIFIED FEEDING PLAN GIVE YOU BETTER RESULTS THESE 4 WAYS

1 SAVE CASH. Because just a little MURPHY'S CUT-COST CONCENTRATE FOR HOGS goes such a long way, your cash outlay for feed is held down. Just one 50-lb. bag of MURPHY'S CUT-COST CONCENTRATE FOR HOGS carries the average pig from weaning time to market. You don't have to spend money for feeds that merely duplicate the grains you grow on your own farm.

2 SAVE WORK. You can self-feed MURPHY'S CUT-COST CONCENTRATE FOR HOGS along with grain and roughage. This saves time and work, and you raise better hogs. Give your hogs all they'll eat all the time and let them feed themselves. You'll get more pork from your corn—with less time and effort on your part.

3 MAKE FARM FEEDS WORTH MORE. Usually, only 5 to 6 bu. of corn and only 25 lbs. of MURPHY'S CUT-COST CONCENTRATE FOR HOGS will put on 100 lbs. of gain. This saves up to ⅓ of your corn. The extra protein, mineral, vitamin and antibiotic substances supplied by CUT-COST help balance up corn and get more pork out of each bushel of grain.

4 CUT BREAKDOWNS AND FEEDING LOSSES. MURPHY'S CUT-COST CONCENTRATE FOR HOGS helps sidestep breakdowns and feeding losses caused by deficient rations. It supplies, all from one bag, the essential protein, mineral, vitamin and antibiotic substances needed to balance up corn and roughage. An extra high level of these nutrients helps cut down losses from slow-growing, poor-doing pigs. That's why MURPHY'S CUT-COST CONCENTRATE FOR HOGS promotes better health and helps make bigger pork profits.

SEE YOUR MURPHY FEED DEALER

- MURPHY'S CUT-COST CONCENTRATE FOR HOGS
- MURPHY'S CUT-COST CONCENTRATE FOR BEEF CATTLE
- MURPHY'S CUT-COST CONCENTRATE FOR DAIRY CATTLE
- MURPHY'S VIG-O-RAY CONCENTRATE FOR POULTRY
- MURPHY'S CALF CONCENTRATE
- MURPHY'S MINERALS FOR ALL LIVESTOCK

They're all guaranteed to give improved vigor, faster gains, better production, lower feed costs, or your money back.

MURPHY PRODUCTS CO. BURLINGTON, WIS.

It's smooth and creamy and it's

double flavored

Buy Malt-o-Meal Wheat Cereal today—start serving it for breakfast tomorrow!

Copyright 1952, C. C. Co.

All around

Here are tips to help you save some time, space, steps, work

● To remove lipstick stains from washable fabrics, I loosen the stain by working glycerin or petroleum jelly into the fabric. Then, when the fabric is laundered, the stain comes out without scrubbing.—*Mrs. L. T., Pennsylvania.*

● **When I hang washing outdoors in chilly weather, I wear a pair of rubber gloves over my regular cloth ones. My hands stay warm and dry and unchapped.—*L. S., Illinois.***

● When I knit a child's sweater, I overcast the seams with extra pieces of yarn. Then if the sweater needs to be mended later, the extra yarn is the same shade as the sweater, as it has been washed along with the garment.—*Mrs. M. F., Ohio.*

● **After shining our chromium faucets, we cover them with a coat of colorless nail polish. Water, soap, and tooth paste do not settle on them and leave spots, and the faucets are always bright and shiny.—*Mrs. C. S., Wisconsin.***

● Here's an entertaining stunt for children's parties: Cover the table with white paper, give each child crayons, and invite him to decorate his own table setting. Or, if the guests are very young, draw animals or other figures on the paper and let the children color these designs. It's fun for the young "artists" and is a good way to get them settled at the table for refreshments.—*Mrs. W. J., Minnesota.*

● **Small children will not open their hands when putting on a sweater or coat if you give them a small object to hold. (I use a marble or spool.) You'll have no more trouble pulling their hands through sleeves.—*Mrs. L. T., California.***

● When butchering beef for storage in my freezer, I cook all trimmed bones and prepare a beef broth. I pour the broth into ice-cube trays, freeze, and store the cubes in a plastic food bag in the freezer. Then, when I need beef broth, I simply bring out the desired number of cubes.—*Mrs. W. K., Illinois.*

● **My hardwood floors are no longer marred with black marks from caster wheels. I simply wrap several rounds of transparent tape around each wheel, replacing the tape from time to time.—*Mrs. L. S., Indiana.***

● When I have trouble making a candle fit into a candlestick, I run hot water over the bottom of the candle. This softens the wax and the candle will fit snugly into the holder.—*Mrs. E. F., Pennsylvania.*

the house

● **I keep a pincushion handy in my closet to use when hanging skirts on hangers.**—*Miss B. W., Texas.*

● A sure way to keep leftover paint for later use is to pour melted wax over the top of the paint. When you remove the wax, the paint won't have a dry, hard scum.—*R. K., Missouri.*

● **When doing patching or mending, I spread a newspaper on the floor by my chair. As I cut pieces of cloth and thread, I drop them on the paper. The paper can then be gathered up and disposed of and the room remains tidy.**—*Mrs. U. S., Wisconsin.*

● An empty adhesive-tape spool makes a good holder for a measuring tape. I wind the measuring tape around the spool and snap on the spool cover. My sewing basket is now tangle-free.—*Mrs. W. B., North Dakota.*

● **A tightly twisted yarn rope for ties on crocheted or knitted garments can be made easily with an electric mixer. I tie two strands of yarn midway on one beater, hold the other end of the yarn in my hand, and turn the mixer on low speed. This creates an even and professional-looking rope.**—*Mrs. H. L., Indiana.*

● To keep our gold- and gilt-painted picture frames bright, I rub them lightly with a cloth dipped in vinegar. The drabness comes off easily, renewing the shiny surface.—*Mrs. D. H., Virginia.*

● **If your recreation room doesn't have drawer or shelf space, nail up a bright shoe bag. The pockets are exactly right for table-tennis balls, score cards, game books, and badminton shuttlecocks.**—*Mrs. L. E., Nebraska.*

● When I'm out of parsley, I often garnish foods with carrot tops or the white leaves of celery.—*Mrs. T. B., Michigan.*

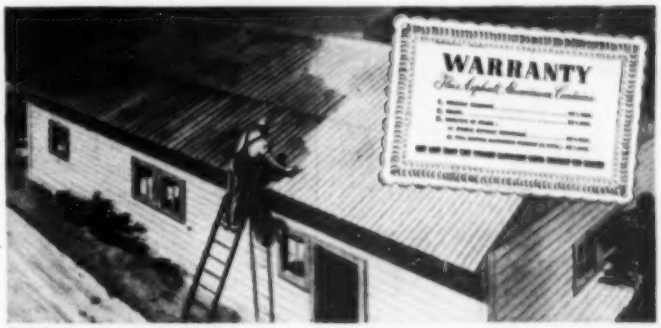
● **After opening a new bottle of glue or nail polish, I rub a little oil on the bottle top before putting the lid back on. The top doesn't stick the next time it is opened.**—*Mrs. B. D., Illinois.*

● If you don't want to heat the oven for warming rolls, put them in the top of the double boiler.—*Mrs. L. G., Michigan.*

Successful Farming will pay $5 for each helpful suggestion published. We cannot return unused suggestions.—Editors

ideas for the Farm

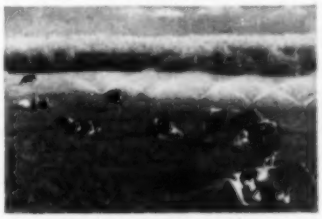
(for more information on ideas discussed here, see bottom of right column)



Bright roof preserver. One coat of asphalt-aluminum costs little, lasts a long time, and has the extra advantage of reflecting summer heat—important in keeping livestock healthier. Use it on rolled asphalt or rustable metal roofs. And when you buy, look for the Warranty Seal that assures the right amount and grade of aluminum pigment in the right vehicle. Ask your dealer for his "Warranty" brand. Folder available.

Moving day comes regularly with your portable hog houses, chicken shelters, etc. They're much easier to move if built with aluminum roofing and siding. Yet this lighter metal has the solid strength you

want on big barns, too. Wherever you use aluminum you can depend on lowest maintenance—no painting. Your poultry and livestock will be healthier because it's cooler under aluminum. Ask your dealer for Reynolds *Lifetime* Aluminum Corrugated and 5-V Crimp. Folder on request.



Pasturage is a money crop if you count the cost of supplemental feed. To cut that cost, use a portable irrigation system. Pastures stay green from early spring to late fall. One test shows cows get 35% more grazing, produce 35% more milk. Portable irrigation systems extend the growing season of all crops. When you buy, insist on strong, rust-proof Reynolds Aluminum pipe . . . weighs only 16 lbs. per 20 ft. length. Illustrated 16-page folder on irrigation sent on request.

Turn off the heat is just what you want to do to keep milk or egg production up in summer, put weight on hogs. And that's just what you do with Reynolds Aluminum Reflective Insulation, tacked or stapled under roofs and inside walls of barns, poultry houses, hog shelters—or

your own home. Aluminum foil on kraft paper, it reflects up to 95% of radiant heat. 250 sq. ft. in one 15-lb. roll. See your dealer. Ask for free folder.

Locker Plant Operators know the best way to wrap foods for freezing. They do it quickly, with no taping or tying, because they use Reynolds Aluminum

Locker Wrap. These experts will tell you the end-result is better . . . preserves flavor, reduces shrinkage. Cannot absorb juices or stick to product. Economical. Insist on this aluminum foil in your freezing. Illustrated folder on request.

Military requirements for aluminum affect total supply of these products. But production capacity is expanding. Keep asking your dealer.

. . . . . .

Reynolds Farm Institute,
Box 1800-B2,
Louisville 1, Ky.

Please send literature on: Irrigation ☐; Locker Wrap ☐; Insulation ☐; Roof Coating ☐; Corrugated ☐; 5-V Crimp ☐.

Name. . . . . .

Address. . . . . .

There's added health protection in CLOROX-clean linens!

Used in laundering of white and color-fast cottons and linens, Clorox does more than make them snowy-white and color-bright... it makes them sanitary, too, safer for your family's health! No other home laundering aid equals Clorox in germ-killing efficiency!

Laboratory tests show that harmful germs often survive ordinary washing. So, follow the example of millions of women who always include Clorox in laundering. Give your family the added health protection Clorox provides. And because it's free from caustic—an exclusive, patented feature—Clorox is extra gentle on fabrics.

And CLOROX protects health in routine cleaning, too!

Clorox is more than a washday help. It's a 4 in 1 product! Besides bleaching, Clorox removes stains, deodorizes and disinfects. Make kitchen and bathroom surfaces bright, fresh, sanitary with Clorox. It's one of the world's great disinfectants! See directions on the label.

When it's CLOROX-clean... it's SAFER for Family Health!

How to listen to the

Election returns

You need to watch only a half dozen or so states to get a fair idea of how the election will turn out

By Gordon Sabine

Going to listen to the election returns? Then it might be well to review just how our national election works. Getting the most votes doesn't always make a man a president—he must win the electoral-college vote, too. And that's a rather complicated procedure.

You really have to watch only a few states to get a pretty fair idea of how the election will turn out. These states are actually the population centers of the nation.

All told, the 48 states will cast a total of 531 electoral-college votes. But because of the difference in populations, some states have more electoral votes than others. Nevada, the least populated of the states, has only 3 electoral votes to cast for president. And New York, with more people than any of the other states, has 45 electoral votes to cast.

Now the hitch is that *all* of the electoral votes from any one state go to only *one* candidate. So the winning candidate in any state, even though he may receive only 51 percent of the total vote cast in that state, will actually receive *all* of the electoral votes!

This permits a man to become president *even though the majority of the people voted for the other candidate!* Actually, he can be elected president by leading the voting in only 12 states. These 12 states have more electoral votes than all the rest of the 36 states put together.

The 11 "politically big" states are New York, Pennsylvania, California, Illinois, Ohio, Texas, Michigan, Massachusetts, New Jersey, Missouri, and North Carolina. Between them they control 264 electoral votes.

By themselves, they can't elect the president. But only 1 other state—any state—need vote along with them to cinch the election.

So, when listening to the election returns, these "big states" are the ones that are going to swing the contest in one direction or the other. They are the ones to watch.

Let's take a look at the nation as a whole and see how the various states stack up. Sixteen of them—one-third of the nation—swing only 65 electoral votes, or only one-eighth of the total. So no matter how these states vote, the over-all picture isn't going to be affected very much.

Of the remaining 32 states, 15 are either within or on the border of the Democratic South. It takes a major political upset to shift very many of them to the G.O.P.

Seventeen states remain. And with the exception of Texas, North Carolina, and Missouri, these 17 include the states with the big electoral votes.

Six of these are on the Atlantic Seaboard. Two of them—New York and Pennsylvania—are of treme 'ous importance. Between them they carry 77 electoral votes, or almost one-seventh of the total number.

Two more—California and Washington—are on the West Coast. Between them they have 41 electoral votes. And the returns from these states will be very, very late coming in. The polls in these states will be open several hours after they close in New York.

Now only 9 states remain. And these 9 states are the big question in any national election, for they demonstrate the role of balance of power that farm votes can play when it comes to electing a president. They played a very decisive role in re-electing President Truman four years ago.

Of these 9, Illinois and Minnesota have voted Democratic each of the past five elections, although the margin of victory in Illinois has been very slight.

Indiana, Kansas, and Nebraska voted for Franklin D. Roosevelt in 1932 and 1936, but have been straight Republican since then. Ohio and Wisconsin have been predominantly Democratic since 1932, but broke into the Republican ranks in 1944.

Michigan and Iowa have been wavering. Michigan voted Democratic in 1932 and 1936, Republican in 1940, Democratic in 1944, Republican in 1948. Iowa voted Democratic in 1932 and 1936, Republican in 1940 and 1944, Democratic in 1948.

The picture is clear: The Republicans cannot win unless they pick up a large part of the Midwestern vote. The Democrats, with their head start in the usually solid South, could lose all these states and still triumph.

The decision in the heavier-populated

[*Turn to page 66*

AMERICAN-Standard
KITCHENS

NEW—convertible kitchen cabinets

by the makers of the world's finest sinks

This American-Standard sink, with deep compartment and gently sloping drainboards, is made of rigid cast iron with a thick coating of acid-resisting enamel. Comes in white and five beautiful colors. Quality faucet is non-tarnishing, has handy spray.

● Do you need a kitchen tailored to *your* particular work habits and *your* own storage requirements? Of course! And now you can have it—thanks to the exclusive convertibility feature of American-Standard kitchen cabinets.

The new American-Standard all-steel cabinets have shelves and drawers that are interchangeable . . . to fit your needs . . . to make *your work easier*. You get this advantage from American-Standard, long famous for the finest, one-piece cast iron sinks.

For a kitchen planned to your needs, see your plumbing retailer who sells and installs quality American-Standard products. Or for help in planning your new or remodeled kitchen send for our Kitchen Products Catalogue. It's free. **American Radiator & Standard Sanitary Corporation,** Dept. KS-112, Pittsburgh 30, Pa.

You get all these features!

Adjustable sliding shelves and roomy drawers bring stored items within easy reach. They're interchangeable, even after installation, to meet individual storage needs and work habits.

* * *

All cabinets are sturdily constructed of steel with smooth, white baked enamel finish that's easy to keep spotless. Sound-deadened, snug-fitting doors open and close at the touch of a finger . . . drawers glide smoothly in and out.

* * *

New-design counter tops of thick, long-wearing Vinyl form a continuous, unbroken surface from the top of the backsplash to the drip-proof front edge.

* * *

Shelves in wall cabinets may be adjusted at one inch intervals, accommodate even hard-to-store items.

* * *

And to complete the kitchen—Aeropel ventilator keeps room fresh, Disposer gets rid of food waste automatically.

Serving home and industry: **AMERICAN-STANDARD · AMERICAN BLOWER · CHURCH SEATS · DETROIT LUBRICATOR · KEWANEE BOILERS · ROSS HEATER · TONAWANDA IRON**

Walls So Beautiful Yet Amazingly Washable!

Rear wall is SUPER KEM-TONE Melodie Green, fireplace wall is Norwood Green, woodwork is KEM-GLO. Color scheme chosen from SUPER KEM-TONE Color Album.

Enjoy the Easiest DECORATING in the World!

Super Kem-Tone

Ordinary flat wall paints are as slow and old-fashioned as the horse and buggy. Today... *right now*... enjoy the easiest decorating in the world with SUPER KEM-TONE, the amazing new wall paint that dries so quickly you get a colorful "new" room in a day. It's so easy to wash because dirt can't penetrate its tough, tight surface. Choose from hundreds of the most beautiful, most fashionable colors you ever dreamed about... and for your woodwork, matching colors in KEM-GLO.

NO THINNING ...JUST STIR AND APPLY

$1.65 QUART $5.19 GALLON

(Deep Colors Slightly Higher)

IT'S GUARANTEED WASHABLE

After it is thoroughly dried, tests show SUPER KEM-TONE will withstand repeated washings with usual household cleaners without losing its beauty. Dust, grime, grease, even crayon marks wash right off its tight, rubber-tough surface. SUPER KEM-TONE is ***guaranteed washable or your money back*** by seven leading paint companies:

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—what they will and won't do for livestock

HORMONES

By A. V. Nalbandov

During recent years, much has been written about hormones and their miraculous qualities. Some of the claims are true—others are still in doubt.

In the case of some new drugs and hormones, we have found that their premature use by inexperienced hands may actually do more harm than good. Because careful laboratory tests take time, results from experiment-station work with hormones are often slow in coming. However, if experiment stations can't get good results under ideal laboratory conditions, we can't expect better results under farm conditions and in the hands of nonspecialists.

Mainly to help farmers understand what hormones will and will not do, the following brief summary was written. This article is concerned only with the hormones dealing with *reproduction and fattening*. These seem to be of greatest interest at the present time.

Hormones for fattening. *Estrogens* are female sex hormones—the best known of which is stilbestrol. This type of hormone can be used for fattening chickens, steers, and lambs. When properly used, this hormone is effective in very small quantities. The hormone usually is implanted in the form of a small pellet under the skin of the animal to be fattened.

It is important that the hormone pellet be placed in such an area of the body that at the time of slaughter it remains with the offal. This is necessary to minimize the danger of eating the pellet along with the meat.

Because of this danger—and the fear that too much hormone may be contained in the meat and fat—the use of this hormone has not yet been approved by the Pure Food and Drug Administration. However, most tests conducted so far have shown there is no serious danger to the consumer from residual hormone in the meat. There may be danger if unreasonably large quantities of meat, and especially liver, are eaten daily.

It is now certain that estrogen causes an improvement in the efficiency of feed utilization. Estrogen increases rate of gain, and in some classes of livestock—especially chickens—brings an improvement in carcass grade. The rate and economy of gain are sufficiently great to make the use of this hormone attractive to cattle feeders, also.

Androgen. This is the male sex hormone. It is also effective as a fattening hormone when implanted in small quantities in steers. It is probable that eventually, when all details are worked out, a combination of the hormones estrogen and androgen will be used for fattening.

One pellet, about the size of a wheat grain, of each of the two hormones is now known to produce even better results than those described for estrogen alone. The treatment requires only an implantation for the duration of the feeding period and no elaborate equipment or special skill is needed.

Hormones in reproduction. Estrogen is also the hormone which causes heat in females. Normally, heat occurs shortly before the egg is released from the ovary. This is called ovulation. The result of this process is that mating in domestic animals takes place *only when there are eggs present to be fertilized* by the sperm contributed by the male.

It's very important to remember that normally the two events, heat and ovulation, *occur together*. This is because the two hormones—estrogen and the gonad-stimulating hormone, required for these two processes—are secreted at the same time.

Experimentally, it is possible to produce heat without ovulation and ovulation without heat. If estrogen alone is given, the animal shows heat but does not ovulate. If the gonad-stimulating hormone alone is given, the female ovulates without heat. It is even possible to cause heat in an animal without ovaries!

Heat and ovulation. Occasionally, each of these hormones alone causes both heat and ovulation. But it is not yet known how this can be done consistently. It is obvious that either of these events alone cannot lead to pregnancy. In the absence of ovulation, mating during a heat period is useless, since there are no eggs to be fertilized. By the same reasoning, if a female ovulates but does not mate because she is not in heat, no pregnancy can result.

For these reasons there is no point in causing heat by estrogen treatment unless it can be made to coincide with ovulation. The treatment with [*Turn to page 58*

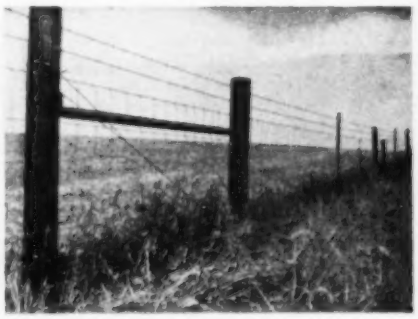
Some successful new

Ideas in fencing

Drive the posts—save time, labor. Posts can be driven in almost any soil. Below is fence-post project carried on by School of Forestry, University of Minnesota, at Rosemount Research Center. Also shown is work at the Iowa State College farms

Posts are sharpened, large end first, leaving ½-inch blunt edge. Below shows one post sharpened with a sharpener, one with a saw

Sharpened posts are driven with portable power driver by John Neetzel. Brake and clutch arrangement raises, lowers weight. Up to 90 posts can be driven per hour. Spacings are gauged by a mark on tire

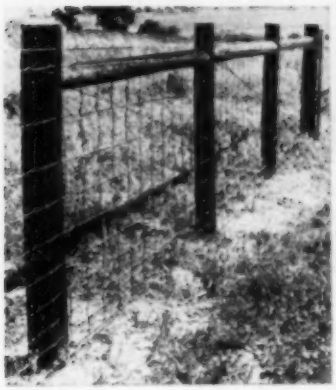


Regular double-brace corner adds strength to a line fence over 40 rods long on Iowa State College farms. Brace was built by College Farm Service

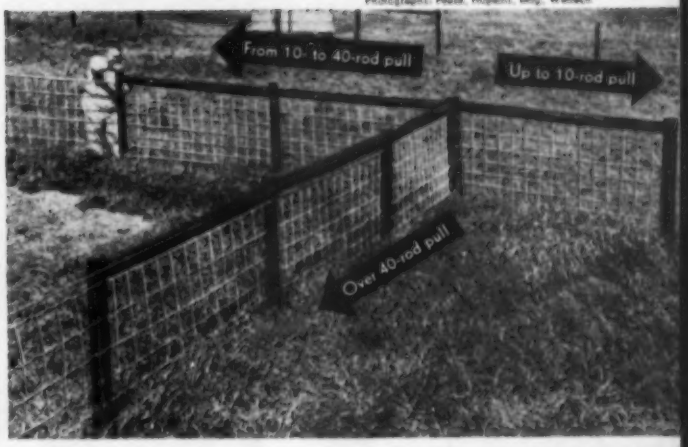
Fence is lined up by stretching wire between two end posts. Drive posts ½ inch from wire to prevent moving wire—stakes help hold wire in line. Guide wire can then be used in fence

Photographs: Peace, Hopkins, Imig, Wettach

By Vernon Schneider

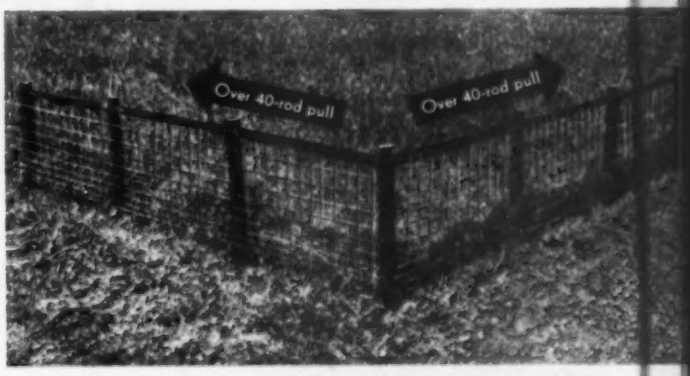


◀Close-up of corner post construction. Note brace wire runs from bottom of end post to top of second approach



Corner showing bracing needed for pulls of three distances. Horizontal bracing helps prevent upward pull

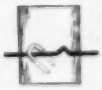
Wooden posts are used in line of steel posts to give rigidity. If livestock are kept in a pasture, more frequent spacing of the wooden posts is necessary



Place braces parallel with the ground — about even with top of woven wire. Corner and approach posts should be 8 feet long, 4 to 6 inches in diameter. Use No. 9 or barbed wire for brace wires — place on tight, twist. Tie wire to corner post

Small things count, too. Here are some tips which will add years to life of fence

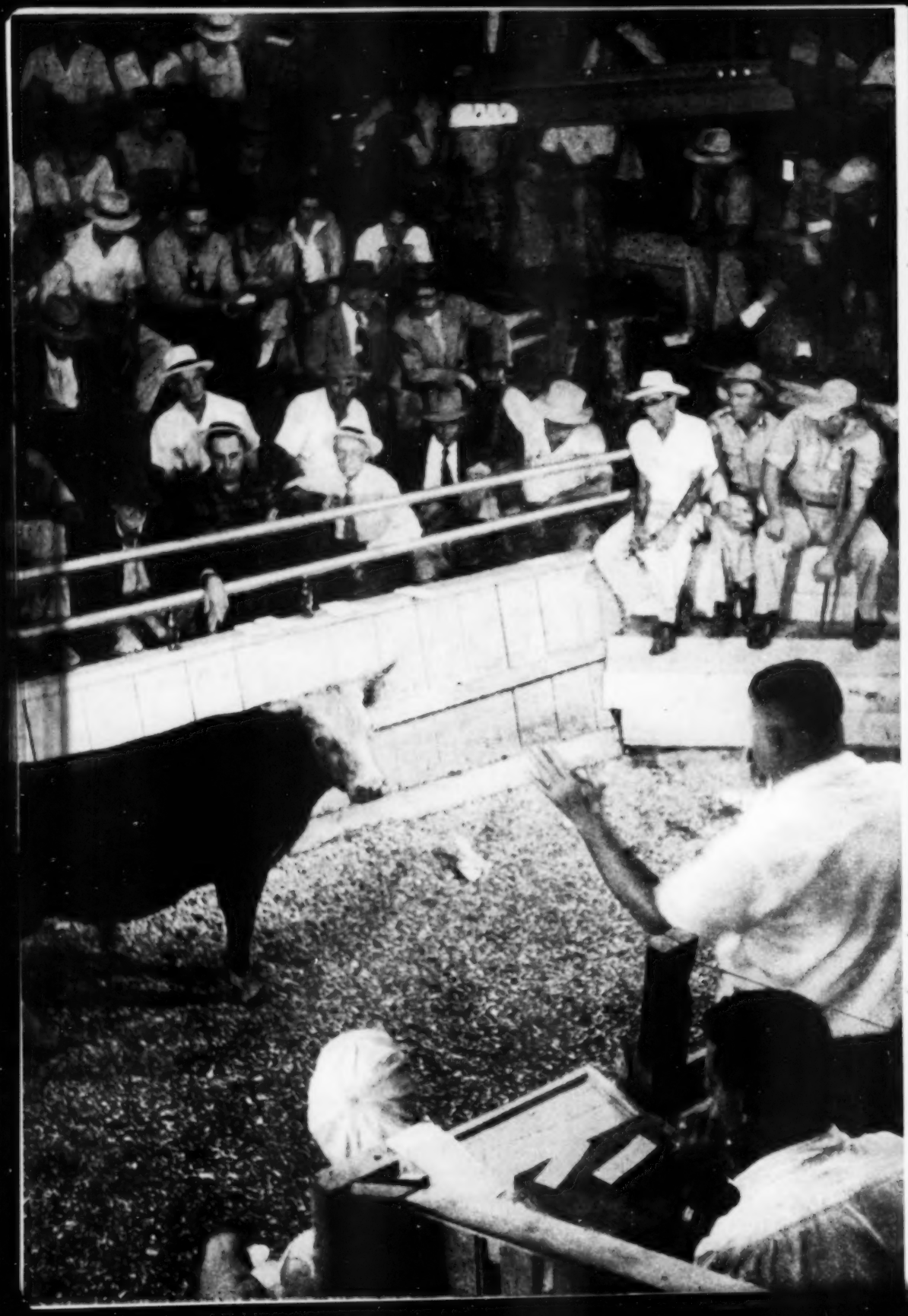
Detail of brace attached to corner post. Cut notch in each end of brace to conform with shape of post. Add strength by driving ¼-inch steel pins (holes are drilled) into the end of brace and posts



Drive staples downward at an angle with post. Don't drive staples all way in — wire should ride free. Use nothing shorter than 1½-inch galvanized staples

Wrap-type splice makes best splice of two wires. Overlap one strand for ease of bending. Don't overstretch — leave kinks in wire

More fencing ideas on page 64



What about Southern feeder cattle?

By C. G. Randall

A number of Cornbelt cattle feeders are looking to the South instead of the West for feeder cattle these days. Others are hopefully watching the rapid development of the Southern cattle industry.

These stockmen, particularly those in the Eastern section of the country, have been worrying about the shift of feeder cattle from the Southwest to the West Coast in recent years. This shift has made it increasingly difficult for Midwest and Eastern beef feeders to obtain cattle for their feedlots. Now, these feeders are hoping the South holds the answer to the need for feeder cattle.

Some folks argue that for years the South will be able to consume all the beef produced there and that Cornbelt feeders looking to this area for feeder cattle are barking up the wrong tree. Let's look at the facts.

True, the South has become more industrialized. The population in 10 Southern states has increased 26 percent during the period 1930-1950. But during this same 20-year period, *cattle numbers in the same states increased 62 percent.*

The increase in dairy-cattle production in the South is now tapering off. But beef-cattle numbers are going ahead by leaps and bounds. During the last three years, numbers of all cattle, both dairy and beef, increased 22.5 percent in the Southern states. During this same period, beef cows 2 years and older increased a million head, or 43.6 percent. [*Turn to page 74*

Good pasture the year round is the aim of Southern livestock raisers. These steers are on pasture on the T. W. Cunningham farm located near Lexington, Georgia

◀ **Public auctions are the main markets for buying or selling Southern feeder cattle. The auction ring shown at left is at Athens, Georgia. Many Midwestern livestock feeders are attending these auctions**

Freight rates from points in the South to points in the Midwest are cheaper than the rates from the Southwest or West. Drawing shows the rates from Billings, Montana, Alpine, Texas, and Southern cities

Photographs: Peter Winkler—Pix. Drawing: Hiser

Who shall speak

The answer is up to farmers themselves. But we should be well aware of all the folks who are trying to speak for us, and of their motives

Last spring the House of Representatives cast aside the testimony of two major farm organizations—the National Grange and the American Farm Bureau Federation—and in the face of their opposition appropriated $250 million for the Agricultural Conservation Payments (A.C.P.) program.

During the debate on the floor of Congress, a farm-wise congressman declared the Farm Bureau did not represent the thinking of the farmers of the country on that issue. By implication, he also challenged the Grange.

If the Grange and the Farm Bureau do not represent farmers, who does? And who can speak for them? Do we *want* a single voice for agriculture?

If this question isn't faced squarely and answered vigorously and directly by the farmer himself, it will be answered by default.

If the farmer allows that to happen—if by sowing the seeds of disinterest, he allows a crop of false prophets or self-appointed spokesmen to spring up—then he will have nobody but himself to blame when his name is bandied about in politics and elsewhere, concerning the power which lies behind the plow.

To have the power to speak for American farmers is to wield economic, social, and—most dangerous of all—political power over a nation of 155 million people. In a presidential election year this power is of all importance. A hot battle is raging right now over who should be spokesman for the American farmer.

Who *should* speak for the farmer?

Should it be the American Farm Bureau Federation, a national service and educational organization with a dues-paying membership of 1,500,000 farmers? Should it be the Grange—which has a paid-up membership of 860,000 and is the only farmer fraternal organization? Should it be the National Farmers Union, which has 207,000 dues-paying members? Should it be the National Council of Farmer Cooperatives, made up of powerful commodity groups which represent 2,500,000 farmers doing an estimated $6-billion-a-year business? Or who? Leaders of each of these organizations have been *elected by their membership*, by secret ballot.

What about U.S.D.A., P.M.A., and other branches of government? Are *they* to speak for farmers? Should farmers allow them to?

Congressmen are *all talking* about agriculture—and many of them *know* something about it! Should the spokesman come from *their* ranks?

Says Farm Bureau President Allan Kline:

"You do not take your vote (to Congress). You send it—and you'd better get interested in the people with whom you send it. We have failed to give credit and honor to politicians, and, unfortunately, we have the sort we deserve in too many instances."

And says Congressman Clifford R. Hope:

"I think most farmers these days are in a position to *speak for themselves* on legislative matters. Every member of Congress likes to hear from his constituents directly. However, I believe farm organizations can and do perform an important service in promoting and stimulating discussion of public questions and in clarifying difficult and involved issues."

No single spokesman now

Business is finding closer ties with agriculture every day. Are farmers prepared to accept a business, industrial—or labor—leader as their spokesman?

What about the professional economists—who have a lot to say?

What about farmer-cooperative leaders?

The truth of the matter is that American agriculture is so complex and diversified that no *one* individual or group can adequately grasp the entire picture or assume the role of spokesman for all American farmers. There are many who can speak *from the ranks* of agriculture, but to speak *for* the farmer is something else.

for farmers?

By Karl D. Butler

Secretary of Agriculture Charles Brannan feels:

"No person and no group should claim exclusive rights to speak for farmers. To do so is to sneer at democracy. The farmer speaks for himself in many ways through the organizations of his choice, through his congressmen, and through other elected representatives such as farmer committeemen and district supervisors. And of course he speaks also with the greatest implement of democracy—the ballot."

Grange is oldest farm spokesman

Even among the long-established farm organizations there is no single national group which can speak with authority for all farmers. Each can speak for its own membership, however, and some of the national organizations may come close to qualifying as spokesman for the majority of the entire group.

Let's turn the spotlight on these organizations and see whom they represent, where their membership is located, and the purpose for which they are organized.

The National Grange, the oldest, is a highly respected fraternal organization which has gained a reputation for the fair position it takes—both *for the farmer and in the public interest*. Traditionally, the Grange hall is a place where farmers can say what they think. The Grange today has 860,000 paid-up members in 37 states. Actual farm *families* represented are probably less than half this figure. Ohio has the largest membership—approximately 153,000. New York is second with about 10,000 less, and Pennsylvania third. The Grange, in general, is not strong in the Midwest. It is gaining strength in the Northwest.

Says National Grange Master Herschel Newsom:

"Over 400 farm organizations have come and gone since the Grange was organized 75 years ago. Some of these were fly-by-night, while others filled a need. . . . With government annually spending over $2,000 per family, the Grange, representing farmers who help pay this bill—rather than agencies who help spend this money—becomes a farm business 'must.' "

Farm Bureau is largest

Second in age—but first in membership among farmer organizations—is the American Farm Bureau Federation. Farm Bureaus were an outgrowth of the Smith-Lever Act, which established the Extension Service in 1914. Under the law, complete control of the service was vested in the state agricultural colleges.

Before any county could have a county agent, a group of farmers had to petition the state Extension Service. Farm Bureaus were formed to do this. Following establishment of state and national units, the American Farm Bureau Federation emerged as a potent spokesman for farmers. Because its membership distribution has been largely in the Midwest and the cotton areas, it is referred to by some as the "corn and cotton" group. However, its influence is not limited to these two areas.

Farm Bureau membership, totaling 1,452,210, is distributed throughout 47 states. This figure is for paid members—one per family—and represents an estimated 3,000,000 adults.

Roger Fleming, Bureau secretary, warns:

". . . farmers are going to be represented. They are going to be represented by government agencies which can never be effective spokesmen for farmers, or they are going to be organized directly into labor unions or puppets thereof; or they are going to be 'spoken for' by self-appointed businessmen, or political spokesmen; or they are going to organize, finance, staff, and operate a hard-hitting general farm organization of their own."

Cooperatives have a voice

Also in line for the responsibility is the National Council of Farmer Cooperatives, a completely different type of organization from either of the two organizations mentioned above. Member cooperatives of both the Grange and Farm Bureau are members of the National Council.

The National Council of Farmer Cooperatives is a farmers' business organization. National Council leaders are the kingpins of farm business. Its members do more than $6 billion worth of business a year through their local cooperatives. This group is also especially strong in the marketing field.

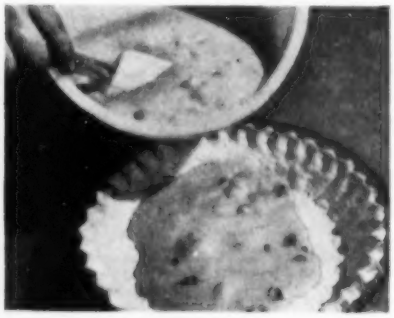
Much of the council's work is done by committees. Its bylaws prohibit taking a stand on public matters unless there is unanimous agreement. When it does take a stand, the National Council of Farmer Cooperatives represents an estimated 2,500,000 farm families, from every state. In this organization there is a fair balance of membership in all sections, but perhaps its greatest strength is in the East and on the West Coast.

[*Turn to page 163*

Honey-pumpkin ice cream pie

How to make this delicious pie

When the honey-pumpkin mixture has been cooled to room temperature, gently fold in ½ cup heavy cream, whipped, and 2 stiffly beaten egg whites. Freeze firm



After first freezing, break the ice cream into chunks and beat until smooth. Into this mixture go nuts, and the whole is poured into a flaky 9-inch pie shell

The ice cream should harden in the refrigerator or freezer for at least overnight. Right before serving, cover with meringue and brown for 3 to 5 minutes

By Susan Menne

Do you dare to be different this Thanksgiving Day—with a difference that will surprise and delight your family?

Here is a new and exciting holiday dessert that the man in your family will want you to make an everyday event. It's creamy, golden honey-pumpkin ice cream in a flaky pie shell, topped with a tender meringue, and popped in the oven for a brief browning. It's the very last word in pies, one that will bring that final compliment, "May I have your recipe?"

Rush the pie from oven to table, and cut it to a chorus of praise. Slip your knife down through the glossy meringue, the cold ice cream, and the crisp pastry. Then pass a generous piece to each of those who have gathered with you on this day to give thanks.

Honey-Pumpkin Ice Cream Pie

Makes one 9-inch pie

Beat . . . **2 egg yolks** until thick
Stir in . . . **¾ cup honey**
Add . . . **¾ cup canned pumpkin**
Blend . . . **1 cup milk** into
1 tablespoon cornstarch
Add to honey-pumpkin mixture.
Add . . . **½ teaspoon cinnamon**
¼ teaspoon ginger
¼ teaspoon salt
Cook over hot water until thick, stirring constantly. (Should be consistency of stirred custard.)
Cool to room temperature.
Fold in . . . **½ cup heavy cream,** whipped
2 egg whites, stiffly beaten
Freeze firm in refrigerator tray; then break ice cream into chunks and beat smooth.
Fold in . . . **½ cup broken pecans**
Pour into **baked 9-inch pie shell** and freeze overnight
Top pie with **meringue,** completely covering ice cream and sealing pie to edges
Bake at 450° (hot) for 3 to 5 minutes, or until meringue is golden brown. Serve at once.
Prepare meringue as follows:
Beat . . . . **4 egg whites** until foamy
Add . . . . **½ cup sugar,** 1 tablespoon at a time, beating well after each addition
Continue beating until egg whites form peaks.

—*Mrs. A. D. Trubinski, Minnesota*

Color photograph: Allen Smith

The eight great pastures

By George D. Johnson

Orchard grass-alfalfa-Ladino. Lamb—400 pounds per acre have been produced on this great pasture mixture. Easy to seed, moderate in fertility needs, livestock like it

Most of the pastures on these pages are easy to seed or establish—several can be a problem. Four of them need to be reseeded every so often—the others hold their own indefinitely. Some are claimed to be none too tasty to livestock. Several, according to their proponents, would win a salad contest. Five are mixtures, two are single grasses, one is a single legume.

But all have two important things in common. *In their place* no other pastures can compare with them for meat and milk production per acre. And all were developed to make the most of an up-to-date fertility program—they are not pastures which will follow the soil downhill. They produce in abundance when well supplied with plant food and are displaced by other less-desirable plants when phosphorus, potash, and—in some cases—nitrogen get short.

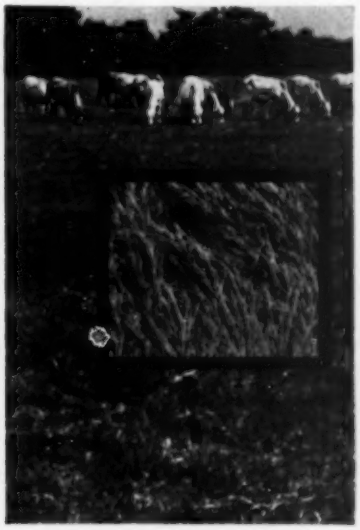
No farmer can afford to pay taxes on three times as much land as he needs for pasture. These pastures can double, triple, *and even quadruple* the yields of average pasturelands. The savings in grain and protein supplement are enormous.

For more details on each of them, please turn to page 116.

Bromegrass-alfalfa-Ladino. The nearest we have to a perfect rotation pasture mixture—relished by livestock, tremendous production, top-grade hay and silage. One caution: Thin brome can invite bloat

Birdsfoot trefoil-permanent grass. This pasture will look the same 10 years from now. Sometimes hard to start, birdsfoot amply repays your efforts once established. Purdue found birdsfoot-bluegrass produced 40 percent more beef per acre than bluegrass alone

Native short grasses. Greatest opportunities here lie in introducing cool-season grasses to native range to provide a longer grazing season



Coastal Bermuda grass. This grass, like the Brahma cattle, thrives in the South's long hot season. No legume can withstand its competition

Tall fescue-Ladino. Hard to beat as a winter pasture; a seed crop can be cut in late June (above)

For crimson clover and reed canary grass, see page 119

Third of a series:
Recipes for
Good Decorating

◂ **Wrong**

Lack of interesting extras makes this living room look bare and uninviting.

By adding accessories, the room now looks homey and lived in. The picture grouping, mantel arrangement, plants, pillows, and copper pieces have added the finishing touches.

Right ▾

How to add the finishing touches

By Joan Bradshaw Scovel

In the last two issues, *Successful Farming* has given you recipes to follow for achieving just the right color schemes for your home, and told you how to mix patterns with plain colors for a pleasing room. But if you stop here, your rooms are not really decorated, are they? No, they are like a cake without an icing. So now we want to tell you how to add the finishing touches to your rooms—the accessories.

Carefully chosen accessories are what make your home *yours*—reflect your personality and taste. They make the difference between a well-decorated room and one that is merely furnished. Interesting wall arrangements, ash trays large enough for Dad's pipe, small pillows for a sofa or chair, and potted plants in interesting containers are some of the finishing touches you'll want and need.

Accessories should be expressive enough to create points of interest and make a room come alive. There are no hard and fast rules to guide you in selecting them, but there are a few things to remember. Be sure their sizes and shapes are right for the specific spot where you are using them. The color should either serve as an accent or blend with the other colors in the room, and they should be in character with your other furnishings. And most important—use the things you truly love—don't feel you must hang that picture Aunt Suzy gave you if you don't like it, or if it doesn't fit into your room.

There are two things to consider in using accessories: first, which ones you should use, and, second, where you should put them. First, you'll want to select the most necessary accessories—such as ash trays, vases, pillows, lamps, and small tables—then the ornamental ones.

In choosing the "finishing touches," let your imagination have free rein. It's the unusual ideas you have that will make your home different and give it personality. Black iron trivets grouped on the wall in a dining room or kitchen will add a distinctive touch and give it the dark contrast that it may need. A pottery bowl filled with fruit or vegetables is a friendly addition to your coffee table. Grandma's ironstone soup tureen filled with flowers makes an interesting centerpiece for the dining table. Small cushions in gay colors add a spark of color as well as comfort to a chair or sofa. And don't hesitate to mix the old with new. It will add an interesting note.

The lustrous, waxy green of growing plants brings life and warmth into any room. Plant them in unusual containers—a large cup and saucer, an old copper bowl or pitcher—or place several pots in a large basket.

Don't forget the fireplace and [*Turn to page 63*

Color photographs taken at Marshall Fields by Sater, Hedrich-Blessing. Drawings, Creger

Here are some suggestions that will add glamour to your home

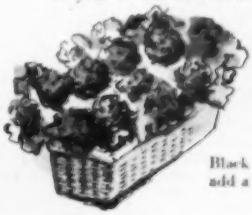
Center a clock over the sofa with pictures on either side

Use pottery rooster in your bookcase or mantel grouping

Hang black trivets on walls of your kitchen

Gay pillows will spark up your sofa or chair

Try grouping your potted plants or your flowers in woven basket



Black iron candlesticks can add a smart, Modern touch

Ten ways to "unclutter"

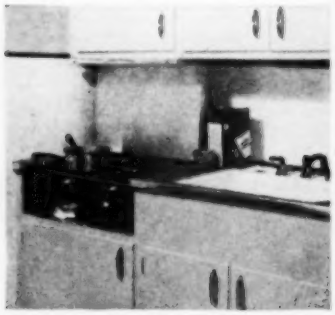
By Maurine Harris

A closet by the back door has slotted shelves, hot air from furnace duct in floor for drying muddy shoes and damp work clothes. No tracking into house

"Two-faced" linen cupboard is doubly useful. One side opens into laundry room, other side into hallway next to bathroom. Towels fresh from dryer go right in handy storage

Pull-out unit has bin for bananas, onions. Shelves with side rails hold things neatly. Revolving corner shelves end clutter of unreachable pans at back of cabinet

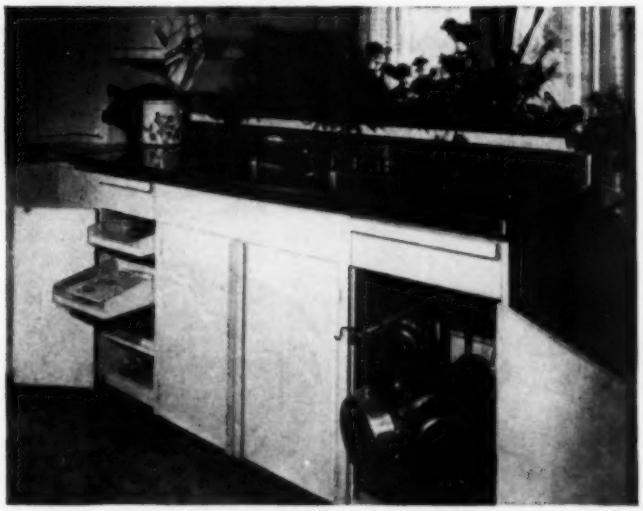
Old dental cabinet is ideal for sewing and mending supplies. Lots of shallow drawers keep spools of thread in order. Pattern envelopes fit in deep drawer. Top lifts up, has full-length storage



Laundry-room cabinet is clever concealment for gas burner. Aluminum-lined counter top lifts up to form a splash back while burner's in use for making starch or canning foods. When the top is down (see at left), cabinet has a smooth working surface

your house

It's easier to keep your house shipshape if there's a handy place to put things. These ideas have proved useful in busy farm homes



Sliding trays hold stacks of folded table linens and dish towels so it's easier to see the one you want and get it out—no stirring up the whole drawer—it stays orderly. Metal hook rack keeps each saucepan in place. Rack glides out to put pans within easy reach. Neater, more compact than stacking so handles go "every which way"

Self-concealing corner shelves are shaped like pie with piece missing—right-angle door is inset. Shelves revolve in either direction, bring door to a closed position

Photographs: Sutor, Hedrich-Blessing, Hopkins, Photography, Inc.

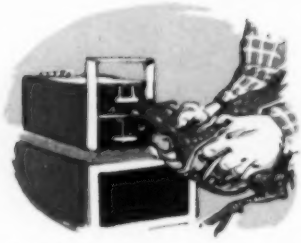
Pan file keeps baking dishes, cake pans, pie tins separate and organized so the whole stack doesn't topple over in a heap when you get one

Built-in baking center has places for all doughmaking needs. Deep cookers from electric range serve as flour and sugar canisters. Door pulls down to form giant board for rolling piecrust

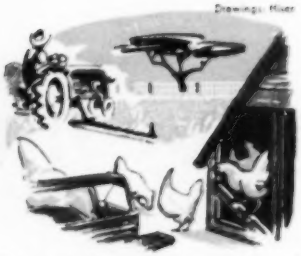
Vertical dividers in a section of cabinet form separate compartments for big trays, cooky sheets, breadboards, muffin pans. Helps keep kitchen in apple-pie order. END

Drawings: Hiser

Provide 1 to 1½ square feet of floor space per chick up to 8 weeks. Start chicks at 95 degrees, lower 5 degrees each week



Electric debeaker removes upper one-fourth of beak, making it impossible for birds to pick. Hand debeakers also do job



Clip range pastures to assure birds of fresh, tender shoots of grass. Pasture cuts down picking by keeping the birds busy

Cannibalism

—*here's how to whip it*

Paint the windows with red lacquer to cut down light. Red bulbs also discourage picking. Provide 1 nest for each 5 birds

Mechanical blinders allow birds to see up and down, not straight ahead. They're fastened by pin through nostrils

Paint injured part with pine tar or a commercial salve. Also paint some unpicked birds to be sure the birds get taste

Feed some green, leafy hay in rack to keep hens busy. Salt in the drinking water also will help supply nutritional needs

By Beth Dickerson

Overcrowding, high brooding temperatures, unbalanced rations—any one of these can cause cannibalism in your poultry flock. Cannibalism hits birds of all ages. Once it has a foothold, it can cause a high mortality in pullets or a severe drop in egg production.

There doesn't seem to be any best preventive or cure for cannibalism. Flockowners use with success an assortment of feeding and management ideas. Preventing it in the first place is your best bet. However, once it's started in your flock, you'll have to resort to mechanical control methods.

Overcrowding is one of the commonest causes of cannibalism. Today's chicks are started earlier in the year and must be kept in confinement longer. The mistake many poultry raisers make is trying to raise the pullets in the same amount of space as they did when starting them in April or May. Provide 1 to 1½ square feet of floor space per bird if the birds are to be kept in confinement for 8 weeks. If they are raised completely in confinement, allow 2 to 3 square feet per bird.

Overcrowding also exists many times when the birds are on range. Each acre of a good legume pasture can carry from 400 to 500 birds. If the range is poor, the number of birds must be cut down. Keeping the grass clipped also helps stop cannibalism, as the birds prefer fresh, tender shoots. Remember, the more time the birds spend on the range, the less chance of cannibalism.

High temperature, especially among chicks, is another cause. Cut down the brooding temperature as soon as it is comfortable for the chicks. Start with a temperature of about 95 degrees. Then lower the temperature about 5 degrees each week, depending on the outside temperature and time of year. The use of a warm and cold room also is helpful.

Insufficient and improper feeding is another cause of cannibalism. Make sure birds of all ages have a balanced ration. Feeding fresh, green feeds, such as cut alfalfa or cabbage, keeps the birds busy. During the winter, place some green, leafy legume hay in a rack in the laying house. Some poultrymen have found that [*Turn to page 128*

Get rid of BANG'S

or you'll lose your dairy market

For a long time now, dairymen have been told that Bang's disease, or brucellosis, costs them money in at least five different ways: 1. abortions, 2. slaughtered animals, 3. breeding troubles, 4. decreased milk production, and 5. lowered resistance to other diseases.

These five sources of loss are bad enough, but right now Bang's disease is threatening to leave a great many dairymen in trouble. They may not have a place to sell the milk they do manage to get from their infected herds.

The threat didn't appear overnight. As far back as 1949, Illinois passed a law prohibiting the sale of all fluid milk in the state unless it came from Bang's-free herds. The measure doesn't become effective until 1955, but it's on the books so farmers in Illinois and other states supplying Chicago with milk know what's ahead of them.

Illinois isn't alone in her avowed intention of cleaning up the sources of her milk supply, either. Iowa, Pennsylvania, and Idaho have imposed similar restrictions, with the idea spreading to cities in various other states. For example, a Michigan city ruled that all milk must come from Bang's-free herds after November 1, 1951. At this time, there are at least six Wisconsin cities that won't accept milk from herds infected with brucellosis.

Dairymen have three choices. All over the country, health officers are becoming more conscious of the danger to human health presented by Bang's disease. Consequently, more and more dairymen are being left with a choice of what to do. They can eradicate Bang's from their herds and keep their milk markets. They can live with the disease and find new outlets for their products while losing their old markets. Or they can go out of the dairy business entirely. The owners select the alternative, but those who want to eradicate the disease are usually helped to some extent by various agencies.

Federal aid. There is federal aid for blood testing, calfhood vaccination, and indemnities. But such assistance is usually dependent on cooperative help by the state. Some of the states have set up effective cooperative programs for the eradication of brucellosis, while others haven't bothered much about the matter. Naturally, the amount of help a dairyman gets is largely governed by the state in which he is located. A few examples will show what the various states are doing.

Wisconsin has a four-point program. It consists of: 1. ring testing, 2. blood test, 3. calfhood vaccination, and 4. indemnities for reactors. The program is designed to help dairymen have clean herds by 1955.

A ring test is run every six months on all milk shipped to licensed dairy plants in Wisconsin, with all herds that show a positive ring test being blood-tested shortly afterward. Beef cattle and others not affected by the ring test will be blood-tested. The ring testing and blood testing are compulsory, but free to cattlemen. After the first blood test of his herd, the owner may select either of these two plans:

A. Blood testing and retesting whenever a ring test is positive. A blood test every 12 months for herds not ring-tested. Slaughter of all reactors within 15 days of test and the payment of indemnity on such animals. Compulsory calfhood vaccination in infected herds and optional calfhood vaccination in clean herds. This plan may be made compulsory on a county-wide basis if 75 percent of the owners petition for the step.

B. Blood testing of herd at 18-month intervals, with reactors being kept in herds, but calfhood vaccination compulsory.

Other states offer alternatives. Although certain parts of the Wisconsin program are [*Turn to page 152*

By Dr. J. W. Bailey

Some sections already have laws prohibiting the sale of fluid milk from infected herds. Others may follow suit

Lamb training system is shown in six pictures below

Lambs are born outside in a holding pen. All ewes are watched carefully and are taken from the holding pen as soon as they lamb

From holding pen, ewes and lambs are put in a small pen in the barn. Pen is equipped with a heat lamp to prevent chilling of lambs

If lambs get chilled before removal from outside holding pen, they are put in heated basement room of barn. Ewes go with lambs

Make money on sheep

By Dick Hanson

Farm managers and farm advisers have been bearing down on the idea of making sheep a side-line business on a great many farms in the past few years. And, on some farms, this is a good idea. Sheep work well as an addition to other types of livestock farming. But sheep need not be a side line. They can hold their own incomewise if you know how to handle them.

Sheep are anything but a side line on John Young's farm near Centralia, Kansas. They're his only business. Five hundred ewes and their lambs, plus two or three carloads of feeder lambs, are anything but a side line.

John's 500 ewes are bred to Hampshire and Suffolk rams about the first of September. Lambs begin arriving by February 1. The ewes are fed ½ pound of shelled corn per head per day during the breeding season. Also, during this period, the ewes graze on lespedeza and brome pasture. When the grass thins out in the fall, ground ear corn is fed in bunks once a day. The ewes also are given hay on the pasture.

John lets the ewes tell him when they aren't getting enough to eat on pasture. When they appear empty and caved-in in the morning when turned out to pasture, John starts feeding grain.

There are a number of reasons why John Young is successful at raising sheep. Probably the biggest reason is his management system at lambing time. Everything moves like clockwork.

At lambing time, the ewes are separated into three holding pens of not more than 200 to a pen. The ewes are kept in these holding pens near the sheepshed and are checked every three hours night and day. As soon as a lamb is dropped, the ewe and her lamb or lambs are taken into one of the maternity pens inside the sheepshed. These pens are warmed by heat lamps installed under a shield in one corner of the pen.

Each morning, the ewes and lambs of the previous day's drop are numbered with branding paint for identification. Each pair has a different number. The ewe is numbered on her back. Twin lambs are branded on the right side, single lambs on the left.

John's sheepshed used to be a cow barn. One room, below the main floor, is kept warm with an oil heater. If a lamb has become chilled, the lamb and ewe are kept in this room for a short time. Then they are moved upstairs to the regular maternity pens.

The most difficult—and probably the most important—job is teaching the ewe to keep track of her own lamb or lambs. And this sheep raiser makes sure lambs are not neglected by their mothers.

After lambing, the ewe and her lamb are kept in the maternity pen the first day. The second day, the ewe and lamb are put in a pen with four other ewes and their lambs. Three days after lambing, about 100 ewes and their lambs are thrown together in one pen.

At the end of three days, most of the ewes can keep track of their own lambs. If not, they go back and begin the three-day learning session over again. [*Turn to page 138*

Self-feeder is lighted so lambs eat night and day ⟶

Two-day-old twin lambs and two ewes are put in pen together. Ewes must be taught to take care of their own twin lambs

In a few days, the ewes and their lambs are moved to a larger pen. Pen holds several ewes being trained to nurse own lambs

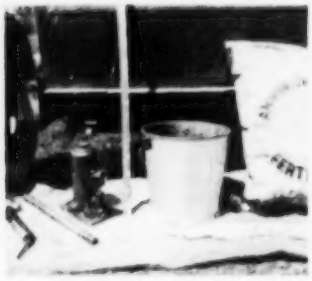
One big lot is used for ewes after they recognize their own lambs. Each lamb is branded with same number as its mother

Photographs: Hufnagle

How to adjust a fertilizer spreader

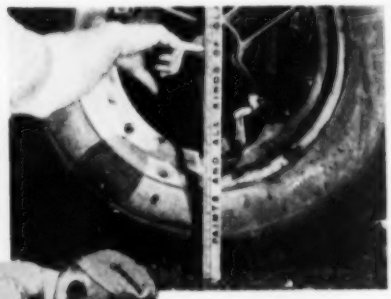
Here is a way to set your broadcast spreader accurately without moving it from the machine shed

By Richard W. Hufnagle
Photographs: Author

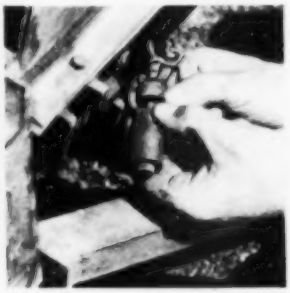


1. You'll need weighing scales, car jack, yardstick, pad, piece of rope or rag, a tarpaulin or strip of heavy paper, and a sack of the fertilizer you will be spreading

2. Distance between openings times number of openings is width of strip fertilized. This into 43,560 gives distance the spreader will travel per acre

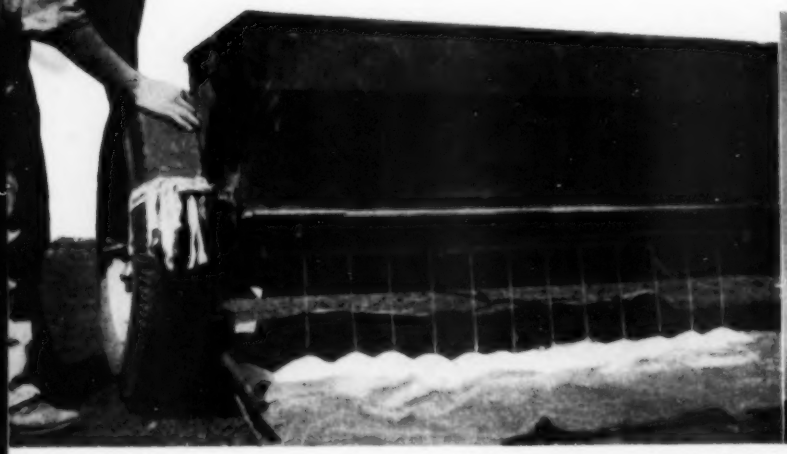


3. Radius times two is diameter. This times 3.14 divided into distance (2) gives wheel turns per acre



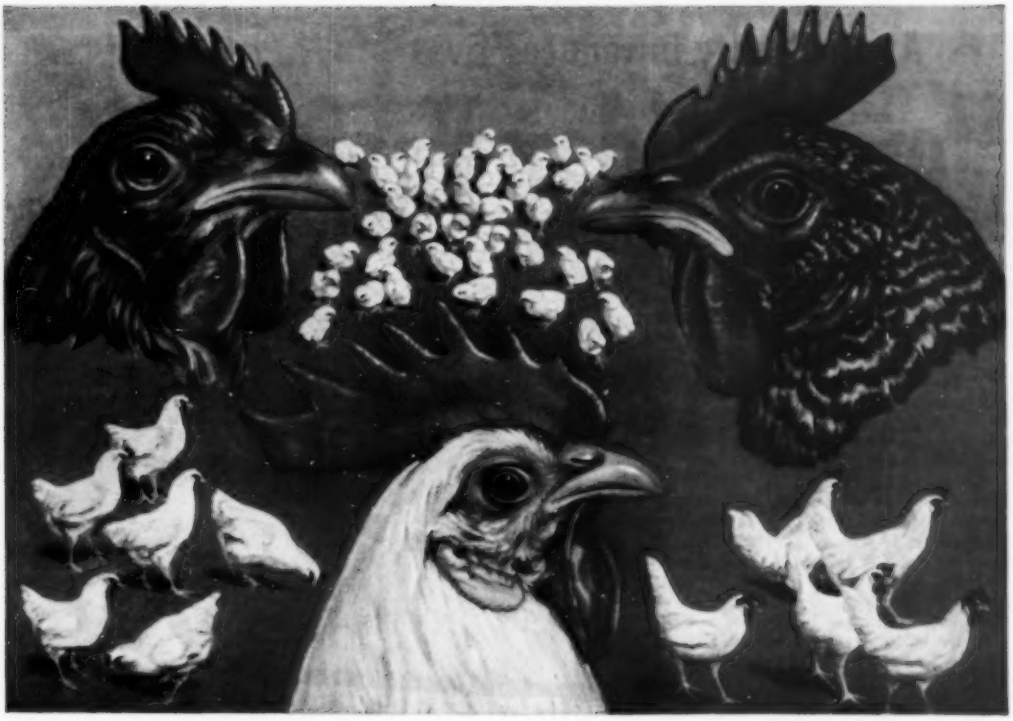
4. Set rate control according to the best estimate of amount you want per acre. Then put enough fertilizer in the hopper to cover at least ¼ of an acre

5. Spread tarp under the spreader, tie rag around wheel, and jack up wheel which operates agitator. Tarp will be moved, so don't pin it down with jack



6. Put spreader in gear and turn wheel at the same speed spreader will travel in field. Count number of revolutions it takes to cover ¼ acre. Be sure fertilizer is running from all openings. Repeat this each time you use new fertilizer, as each varies in its rate of flow

7. Weigh fertilizer dropped on tarp and multiply by 4 to get amount per acre. If too far off, change setting, repeat. END



Get unexcelled advantages!

AUREOMYCIN

as a supplement in feeds and as a medication

Top performance for your chickens and turkeys—in faster, more uniform growth; in less tendency to disease; in sounder development; in better feathering and yellower shanks; in more meat per pound of feed consumed!

These are your rewards when you keep the great antibiotic, aureomycin, ***constantly in use*** on your farm. These ***have been*** the rewards of thousands of farmers who have used aureomycin continuously ever since it became, more than 2 years ago, the ***first*** antibiotic to be used as a "growth" supplement in livestock and poultry feeds.

Farm people have learned, in terms of more dollars and better farm living, how great a "friend" aureomycin can be—both as a growth supplement in commercial feeds for chickens, turkeys, calves and swine and as a medication for treatment of sick animals. Farmers have brought ***more*** fine appearing poultry and animals to the profit stage ***sooner,*** and used less feed to do it.

Aureomycin, the many-use antibiotic, is available as a supplement in commercial feeds and can be procured as a medication, in several forms, through your druggist, feed store or veterinarian. Write for free literature.

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AMERICAN Cyanamid COMPANY

30 Rockefeller Plaza New York 20, N. Y.

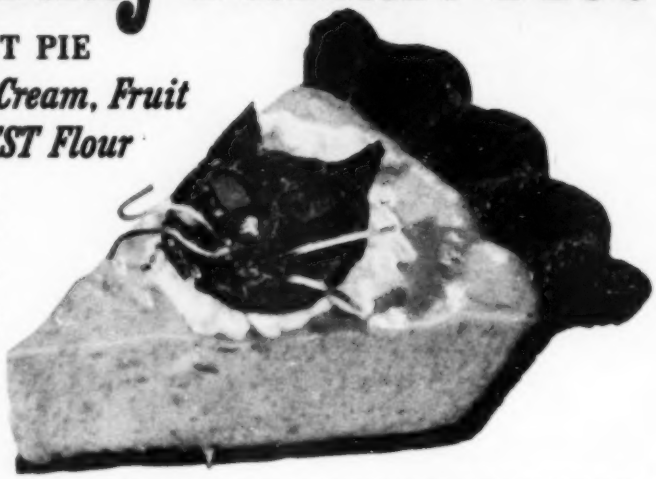
AUREOMYCIN—T. F. now contains in each pound: Aureomycin, 15 Gm.; Vitamin B_{12}, 1.5 Mg.

Ann Pillsbury introduces five

New Holiday Parfait Pies

APRICOT PARFAIT PIE

made with Jell-O, Ice Cream, Fruit and Pillsbury's BEST Flour



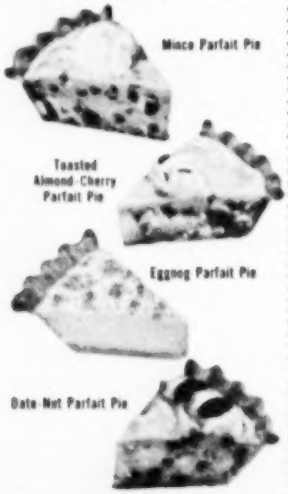
For the first time, you can now make this new kind of holiday pie! You do it, of course, by combining Jell-O, fruit and ice cream.

New lightness in taste. Surprising new twist to traditional pie flavors.

New lightness in texture. More delicate than the usual holiday pie. Smoother than chiffon pie.

New simplicity. You don't cook or beat the filling. You need only four simple ingredients, only three utensils—a saucepan, a measuring cup and a spoon. Quick to prepare, too!

...AND 4 OTHER PARFAIT PIES for the Holiday Season



Ann Pillsbury's APRICOT PARFAIT PIE

Results guaranteed only with Jell-O and Pillsbury's Best

CHOCOLATE PASTRY

BAKE at 400° F. for 8 to 10 minutes.
MAKES 9-inch pie shell.

Sift together 1½ cups sifted **Pillsbury's Best Enriched Flour***
½ cup **sugar**
¼ cup **cocoa**
½ teaspoon **salt**
Cut in ..... ½ cup **shortening** until particles are the size of small peas.
Blend in .... ½ teaspoon **vanilla**
Sprinkle . 3 to 4 tablespoons cold **water** over mixture, tossing lightly with fork until dough is moist enough to hold together. Form into a ball.
Roll out .... between two sheets of waxed paper to ⅛-inch thickness.
Cut out ..... a circle 1 inch larger than inverted piepan; fit loosely into 9-inch piepan. Fold edge to form standing rim; flute. Prick crust with fork.
Cut ..... remaining pastry into kitten face shapes by cutting around pattern with knife. (Draw kitten face on paper, paste on cardboard, then cut around to make pattern.) Place on ungreased baking sheet. Press coconut "whiskers" on kitten faces. Cool. pie shell and cutouts in moderately hot oven (400° F.) 8 to 10 min. Cool.
Bake .....

*If you use Pillsbury's Best Enriched Self-Rising Flour, omit salt.

FILLING

FILLS 9-inch pie.

Prepare.. 9-inch chocolate pie shell as directed at left.
Heat ...1 cup **apricot juice*** (drained from No. 2½ can apricots) to boiling in 2-quart saucepan. Remove from heat.
Add....1 package **Orange Jell-O**; stir until dissolved.
Add....1 pint **vanilla ice cream**, cut into pieces, to hot liquid; stir immediately until melted.
Blend in 1 cup **apricot pulp**; mix well.
Chill .... until mixture is thickened but not set, 25 to 35 minutes.
Turn .... into cooled, baked pie shell. Chill until firm, about 1 hour. Top with whipped cream and pastry cut-outs.

*FOR FASTER SETTING, reduce apricot juice to ¼ cup.

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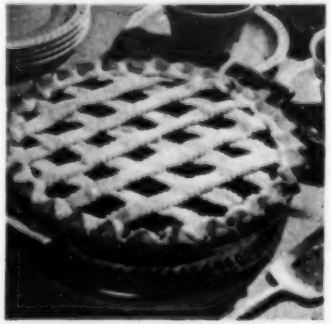
RECIPES for all these new holiday parfait pies now in every bag of

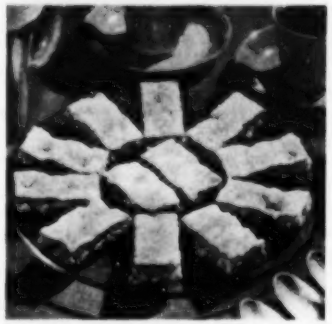
Pillsbury's BEST

The GRAND NATIONAL Flour

JELL-O

Jell-O is a registered trade-mark of General Foods Corporation





Mincemeat Cake

Cream . . . **½ cup shortening** with
1 cup sugar
Add . . . . **1 egg**; mix well
Sift together:
2¼ cups flour
1 teaspoon soda
½ teaspoon cinnamon
½ teaspoon nutmeg
½ teaspoon cloves
Add dry ingredients alternately with
1 cup buttermilk to shortening mixture
Fold in . . **1 cup mincemeat**
½ cup chopped California walnuts
1 3-ounce can candied fruits and **peels**
Pour into paper-lined 9½x5¼x2¾-inch loaf pan.
Bake at 350° (moderate) for 75 minutes.
—Mrs. George Q. Tetter, Pennsylvania

Cranberry-Mince Pie

Makes one 9-inch pie

Combine **2 cups mincemeat** with
1½ cups (1 pound can) whole-cranberry sauce
Fill 9-inch pastry-lined pie shell.
Crisscross pastry strips over top.
Brush pastry with **milk**
Bake at 400° for 30 to 35 minutes.
—Miss Bertha Rohrich, Nebraska

Mincemeat Bars

Makes about 30

Beat . . . . **2 eggs** till light and thick
Add . . . . **¾ cup sugar** gradually
Continue beating for 5 minutes.
Add . . . . **⅓ cup melted butter**
Sift together:
1 cup plus 2 tablespoons sifted flour
1 teaspoon baking powder
½ teaspoon salt
Fold into butter mixture.
Fold in . . **1 cup chopped dates**
¾ cup mincemeat
Pour into greased 15½x10½x1-inch jelly-roll pan.
Bake at 350° for 30 to 35 minutes.
Cut in bars; dust with **powdered sugar.**
—Mrs. Bud Weiss, Minnesota

Stuffings – superb

Allow about 1 cup of stuffing for each pound of poultry.

You'll find more helpful hints for stuffing on page 93

De Luxe Stuffing

Makes 4 cups

Cook . . . . **¼ cup chopped celery**
1 tablespoon finely chopped onion
1 3-ounce can (½ cup) chopped mushrooms in
2 tablespoons melted butter until tender
Combine **¼ teaspoon salt**
⅛ teaspoon pepper
⅛ teaspoon paprika
½ teaspoon poultry seasoning
¼ cup chopped California walnuts
½ cup sliced stuffed olives
3 cups dry bread cubes
⅔ cup chicken stock or **bouillon**
Add celery mixture; mix well.
—Mrs. Mary Armstrong, Illinois

Herb Stuffing

Makes 3 cups

Combine **4 cups day-old bread cubes** (½-inch cubes)
½ teaspoon sage
½ teaspoon thyme
½ teaspoon rosemary
½ teaspoon salt
2 tablespoons chopped parsley
2 tablespoons minced onion
¼ cup melted butter
Mix thoroughly with
½ to ¾ cup chicken broth or **bouillon.**

Apricot-Raisin Stuffing

Makes 6 cups

Combine 5 tablespoons melted butter
5 cups soft bread cubes
2 cups chopped cooked apricots
$\frac{2}{3}$ cup seedless raisins
$1\frac{1}{4}$ teaspoons salt
$\frac{1}{2}$ teaspoon chopped parsley

Mix thoroughly.

Mushroom Stuffing

Makes 6 cups

Combine 6 cups dry bread cubes ($\frac{1}{2}$-inch cubes)
2 tablespoons minced celery leaves
$\frac{1}{4}$ cup chopped onion
$\frac{1}{8}$ teaspoon pepper
$\frac{1}{2}$ teaspoon poultry seasoning

Pour on $\frac{1}{4}$ cup melted butter

Mix in lightly
1 $10\frac{1}{2}$-ounce can condensed cream of mushroom soup.

Old-fashioned New England Stuffing

Makes $5\frac{1}{2}$ cups

Cook . . . . 1 cup chopped onion
1 cup chopped celery
$\frac{1}{2}$ clove garlic, minced
2 tablespoons chopped parsley in
$\frac{1}{4}$ cup melted butter

Combine 5 cups day-old bread cubes ($\frac{1}{2}$-inch cubes)
1 teaspoon salt
$\frac{1}{8}$ teaspoon pepper
$\frac{1}{8}$ teaspoon sage
$\frac{1}{8}$ teaspoon thyme
$\frac{1}{8}$ teaspoon savory
$\frac{1}{8}$ teaspoon marjoram
$\frac{1}{4}$ teaspoon brown sugar
6 tablespoons light cream

Add onion mixture.

Blend well.

—Mrs. Julia Foley, Connecticut

Made with mincemeat

You'll want to try these unusual and good pies, ice cream with a new twist, and special cake and cookies

Orange-Mincemeat Pie

Makes one 8-inch pie

Combine $1\frac{1}{4}$ cups chopped seedless raisins
$\frac{1}{4}$ cup chopped California walnuts
2 tablespoons lemon juice
$\frac{1}{2}$ cup orange juice
1 cup finely chopped apples
2 tablespoons chopped candied orange peel
2 tablespoons chopped citron
$\frac{3}{4}$ cup sugar
$\frac{1}{4}$ teaspoon salt
$\frac{1}{4}$ teaspoon cinnamon
$\frac{1}{4}$ teaspoon cloves
$\frac{1}{4}$ teaspoon ginger
1 tablespoon flour

Pour in 8-inch pastry-lined pie shell.

Adjust top crust.

Bake at 400° (moderately hot) for 40 minutes.

—Mrs. A. D. Trochiniki, Minnesota

Mincemeat Ice Cream

Serves 6

Combine 2 tablespoons lemon juice
1 can sweetened condensed milk

Add . . . . $\frac{1}{2}$ cup water
1 tablespoon vanilla

Fold in . . 1 cup heavy cream, whipped

Freeze until firm.

Remove from freezing unit.

Break into chunks; beat with electric mixer until smooth.

Fold in . . 1 cup mincemeat

Freeze until firm.

No long pre-heating delays!

All Frigidaire ovens pre-heat to the highest temperatures — super-quick!

No temperature guesswork!

The dials decide! Five accurate surface heats — for good-tasting results always!

No pint-sized ovens!

Big, roomy ovens — big enough for turkeys, roasts — or even 6 pies at once!

Women who have cooking problems find wonderful answers in Frigidaire!

Among 10 beautiful Frigidaire Ranges, you'll find one that fits your idea of size, oven space, convenience — and price!

Tired of your old-fashioned range that smogs up your walls, heats up your kitchen, riles up your temper?

Then, *you're* the woman for whom Frigidaire designed this truly great line of modern electric ranges!

Every model has exclusive features that could make a wonderful cook out of a child! Clean, smogless heating scientifically right to do a perfect cooking job. Huge ovens take up to a 30-pound turkey with ease. Easy-to-clean porcelain finishes won't rust, or discolor . . . resist acid, too!

There are Frigidaire Ranges for large families or small. For lots of space or little. Ranges that keep you out of the kitchen while complete meals cook by themselves. Which ever Frigidaire Range you choose — you can't buy a more modern, easier-to-use electric range anywhere. See them all at your Frigidaire Dealer's!

Large Family? Here's Frigidaire's two-oven dream range — with every modern convenience that makes cooking easy and fun. Completely automatic. Deep-Well Cooker, convertible to a fourth surface unit. Electric Time Signal. Cook-Master Oven Clock Control. Fast-heating Radiantube surface units. Lots of storage space. There's no finer electric range made, no easier way to cook meals that make eyes glisten!

Small space? Or, perhaps, limited budget? The "Thrifty-30" is for you! A really huge oven in just 30 inches of space. Four Radiantube heating units give faster heat, with less current. Full-Width Utensil Drawer. Acid-resisting Lifetime Porcelain finish. Available with Cook-Master Oven Clock Control and top lamp. And the price? So low, you won't believe it.

Now! Bake and broil — same oven — same time!

Here's the exciting new Wonder-Oven Range — with a single huge oven that becomes two ovens in a matter of seconds! Broil in the top — bake in the bottom. It's amazing!

All of Frigidaire's wonderful extra features, too — including automatic cooking, 4 Radiantube heating units, convertible Deep-Well Cooker, Lifetime Porcelain finish. See it today!

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Frigidaire reserves the right to change specifications, or discontinue models, without notice.

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1. Judge the height of Super Power Bar's lugs. Higher bars bite through soft surface to solid ground.

2. Judge Super Power Bar's exclusive bridged open center. Self-cleaning bars that snap out dirt and mud!

3. Judge the longer bars — designed to give a bigger bite in sandy soil, cover crop — spread traction over a greater area.

4. Judge the 3 point bracing of each lug — prevents "lay-back", makes Super Power Bar wear longer.

*Prove it to yourself—See the new Super Power Bar at your **GILLETTE** Dealer's today!*

GILLETTE Tires

DIVISION OF UNITED STATES RUBBER COMPANY

Pasture from wheat and barley in East

Pennsylvania farmers may be able to harvest or graze extra high-protein feed from their small-grain crops. Experiments at the Pennsylvania State College indicate that considerable forage and pasture may be had in good years without damaging grain yields.

Barley is an especially good grazing crop which produces a good crop of grain. In one test Kenbar barley produced 3,326 pounds of forage and 30 bushels of grain, making a total feed value of 84 bushels of grain. A test plot left ungrazed produced 63 bushels of grain.

Protein content of the forage ran from 26 to 35 percent in the fall harvests, and a little above 20 percent in the spring harvest. Two harvests were made in the fall, and one in the spring. In tests where no spring harvest was made, a higher yield of grain was realized.

Similar tests were run with winter wheat. With wheat, dry-forage yields ranged from around 1,000 to 2,000 pounds, and grain from 23 to 41 bushels, per acre.

In all tests, a deficiency in soil moisture would result in serious reduction of yields of both forage and grains. It does not appear that the forage-grain type of management will be profitable in dry seasons.

Planting dates for the grain-forage crop are considerably earlier than for grain alone. The longer growing season greatly increases forage yields. And heavy fertilizer was applied . . . especially high in nitrogen, to provide the succulent green growth which makes excellent pasture.

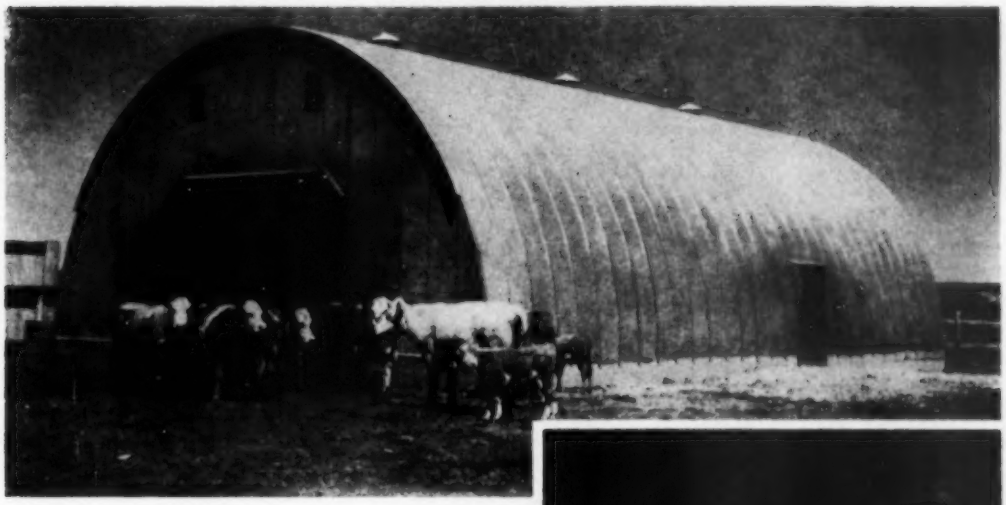
New sheep parasite

An unrecorded parasite in the brain and spinal cord of sheep has been discovered by research workers in the veterinary college at Cornell University. Cases have been found in Yates, Tompkins, and New Hampshire counties, New York. The parasite is a worm about an inch long which crawls through the spinal cord to the brain, destroying the tissue as it goes. The resulting damage causes some animals to become completely helpless. Other cases, only mildly affected, have recovered.

The scientists say the parasite is probably transmitted by mosquitoes or biting flies, with the likelihood of some other animal's being the natural host for the parasite. They report a similar disease is known in Asia, but over there it has been attributed to a different parasite, and the Cornell scientists have not yet been able to evaluate the Asian work. The disease has not been described before in the United States.

"We checked prices, then put up a STEEL building"

says Clarence Wendel
DeSmet, South Dakota



Mr. Wendel, together with his father and brothers, operates a 1200-acre farm 8 miles from DeSmet, South Dakota. Here's what he has to say about the steel building he erected last year.

"We had to get a cattle shelter up in a hurry last fall to house a hundred feeders. We checked lumber prices then decided to put up a steel building measuring 36′ x 60′. The type we chose gave us good protection for our cattle and we are well satisfied with it.

"My father, two brothers and I erected the building in only 5 days, and it was during the bad weather of December, 1951. In January, we had a bad 3-day blizzard and the cattle would not come out of the shed. We fed them inside without trouble and they did fine.

"What we especially like about this steel building is that there is no maintenance on it. Also, there are no posts. If we put up another building this summer for a machine shed, we want the same type."

Ten years of research have proved that steel buildings are ideal for every housing job on your farm. For machinery, hay or grain storage, for cattle or poultry housing—these strong, weather-tight steel buildings give you the most for your money. Send the coupon today for free literature.

USS

SEND THIS COUPON FOR FURTHER INFORMATION

Agricultural Extension Bureau, United States Steel Company
Room 2831, 525 William Penn Place, Pittsburgh 30, Pa.

I am interested in steel buildings for the following:

- ☐ grain storage
- ☐ hay storage
- ☐ machinery storage
- ☐ other: .....
- ☐ cattle shelters
- ☐ dairy barns
- ☐ poultry shelters

Approximate size or capacity .....

Send information to:

Name .....

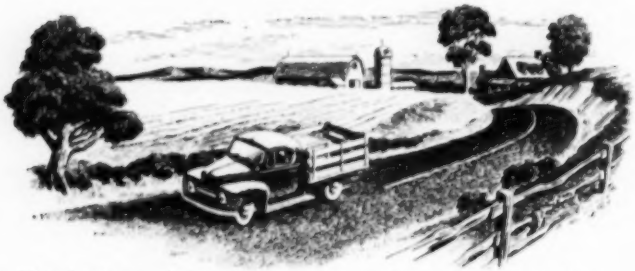
Address ..... Town .....

County ..... State .....

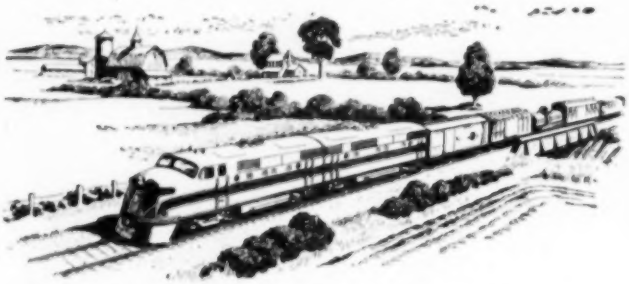
United States Steel Company is a steel producer, not a steel building fabricator. Your request, therefore, will be sent to building manufacturers who fabricate steel buildings for farm use.

UNITED STATES STEEL

A Tale of Two Roads



This is the road that runs past your farm. It is your link with neighbors and nearby towns. You probably use it every day. And remember, no matter who *uses* it, *your taxes* pay for building and maintaining it.



This is the road that connects your farm with every other part of the nation. On this road of rails, your crops go to markets near and far. On these rails move the equipment and supplies you use. And, of course, *the railroads* pay for building and maintaining these steel highways, as well as paying local and state taxes on them.

Public roads are designed to carry your automobile and your farm truck, but they break down under the pounding of heavy commercial freight traffic. Railroads are built for *heavy-duty* hauling. And it is a job railroads do with unequalled efficiency – carrying more freight, more miles, at a lower average charge than any other form of general transportation. Isn't it good common sense, then, to use railroads for the job they do so well?

For, the more freight the railroads carry, the less wear and tear there will be on your public highways—and the less you, as a taxpayer, will have to pay for building and maintaining these highways.

ASSOCIATION OF AMERICAN RAILROADS

WASHINGTON 6, D. C.

You'll enjoy THE RAILROAD HOUR every Monday evening on NBC.

Hormones

From page 31

estrogen of animals showing certain types of sterility easily produces heat. But, as a rule, the heat period is without benefit in causing pregnancy or in causing regular cycles if the cycles were irregular before treatment.

The same holds for estrogen treatment of ewes during the nonbreeding season. Here again the important thing is to make heat coincide with ovulation. Bringing ewes into heat with estrogen does not necessarily insure ovulation. However, it is possible that such treatment given shortly before the natural onset of the breeding season in the fall may hasten the heat period. Much additional work still remains to be done on this problem.

Androgen is known to be responsible for the "sex drive" of males. For this reason it has been thought that it might be good for treating males which refuse to mate, or for the improvement of sperm quality and quantity.

In some cases, good results for the purposes mentioned have been reported, while in others complete failure resulted. Only much additional work will solve the very important questions of the amount of hormone to be given and the time for which treatment should continue. Almost no information is available on these points. This makes it impossible to pass final judgment on the usefulness of this hormone for the purposes mentioned.

The gonad-stimulating hormones. These hormones are used for the production of eggs from the ovaries of females. The use of these hormones—there are several of them—for this purpose is old, but it is periodically "rediscovered." The rediscovery usually revives interest in the possibility of two lamb crops a year.

The idea behind this idea of two lamb crops a year is to stimulate the ovaries of ewes—which are sexually inactive during the nonbreeding season—to produce eggs. This is not hard to do, but the trouble is that the hormones which cause ovulation do not also cause heat.

In this case we are up against the problem mentioned earlier, namely, ovulation without heat. It has been found that if two injections of a gonad-stimulating hormone are given 16 days apart, about half of the treated ewes will show both heat and ovulation. Those ewes coming in heat will mate, and if the males are fertile, pregnancy will result.

Poor lambing average. The trouble thus far has been that the majority of ewes which will mate will not carry the lambs to term. Of 100 ewes treated with the gonad-stimulating hormone, about 50 percent will show heat and ovulation, and will mate. Of the 50 ewes which mate, only about 40 conceive and only about 20 or 30 will go to term. This reduces the total lambing percentage—on the basis of the 100 ewes which were injected to begin with—to not more than 30 percent.

Even with an increased frequency of twins, this percentage is far worse than what the ewe can do under her own power during the regular breeding season.

None of the gonad-stimulating hormones can be recommended as outstanding for curing sterility in cattle. In the hands of a careful specialist, some good results have been obtained in treating sterility in cattle. But success requires special skills and a good understanding of the way in which these hormones work, as well as an understanding of the reproductive processes of the female animal.

It is not exaggeration to say that the problems faced by the scientists who made atomic power possible are simple in comparison with the problems confronting the animal physiologist. The "chain reactions" involved in the function of an animal are complex. Each change in the rate of function of one organ brings with it many effects which alter the over-all function of the whole animal.

We are only now beginning to understand how complicated glands and hormones actually are. Much more basic research will be needed before we will be able to influence hormone function to the complete satisfaction of the livestock breeder and feeder. END

Why you say it

Until less than two centuries ago, wood was the principal fuel used for both heating and cooking. There were no power tools, and the clumsy saws of the Elizabethan Age were too heavy for one man. So the small farmer was forced to depend upon the ax.

It was common knowledge that a good, solid chopping block was almost as necessary as a sharp ax. Veteran woodcutters of Essex County insisted that the only satisfactory chopping log was a length of yew at least 8 inches in diameter. In the vernacular of the region, such a block was called a *chump*. Gradually the use of the chump spread over the British Isles. Since it was hard to conceive of anything more stolid, householders transferred the term to stupid or dull-witted persons.

Though new fuels seem on the way toward making the chopping block obsolete, the *chump* may never become extinct!—*Boyd G. Wood*.

Even Grimiest Hands Clean in 30 to 50 Seconds with amazing LAVA SOAP...

Lava gets ground-in dirt ordinary toilet soaps miss! Yet so remarkably mild, use it always!

Of all leading soaps ONLY LAVA has "HAND-BRUSH ACTION" right in its creamy lather!

Contains thousands of tiny "scrubbers" that clean like a gentle hand brush—get dirt out of skin creases, 'round nails!

Zingo! Hands sparkling clean in seconds—no matter how greasy or grimy the chore! No ordinary toilet soaps compare. Yet Lava is *mild* enough for tots! Get plenty today. World's *only* leading soap with "Hand-Brush Action" right in its creamy lather!

Enjoy Lava's "Hand-Brush Action" *whenever* hands are washed!

★ Rich lather in hardest water!
★ Leaves hands softer, smoother!
★ Saves towels; no more smudges!

LAVA SOAP CLEANS LIKE A HAND BRUSH... LATHERS LIKE CREAM!

An economical dentifrice

Cleans teeth thoroughly, safely.

Fights acid-forming bacteria...

● According to many dentists, enamel-eating acids in the mouth are the cause of tooth decay.

Ordinary toothpastes have little or no effect on mouth acids, but the chemical and cleansing action of soda—pure bicarbonate of soda—helps prevent the growth of acid-forming bacteria . . . helps cut down tooth decay. And brushing teeth with soda after meals helps do away with bad breath that starts in the mouth.

Year after year Arm & Hammer and Cow Brand Baking Soda continue to have the seal of acceptance of the Council on Dental Therapeutics of the American Dental Association.

Recommended for dentures, too

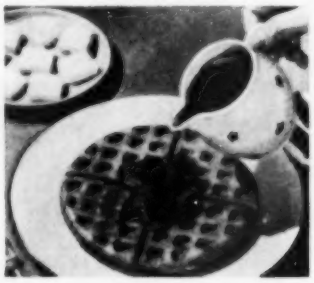
Scrub with soda and a stiff brush to remove food debris, other deposits.

A soothing gargle—To cleanse the throat and help remove mucus, gargle with 1 or 2 teaspoonfuls of soda in a glass of water.

FREE! Booklet—Your Teeth and Their Care. Write Church & Dwight Co., Inc., 70 Pine Street, New York 5, New York.

Tips for the cook

Try these ideas that will add sparkle to meals and make your cooking easier and more enjoyable



To perk up your breakfasts. Here's a quick-to-make and good-tasting syrup for pancakes and waffles. Blend and heat together 1 cup hot pancake syrup and ⅓ cup peach or orange marmalade. Serve warm on griddle cakes and waffles.

Here's a new way to make potato cakes. Take 2 cups leftover mashed potatoes; add 1 egg; season with ½ teaspoon salt. Roll in yellow corn meal; brown in 1 tablespoon shortening. Makes 6 patties. —*Mrs. Kathryn Stouffer, Pennsylvania.*

New life for green vegetables. To vary the usual way of preparing green vegetables, melt 2 tablespoons butter in a saucepan. Add 2 tablespoons chopped walnuts, 2 tablespoons fine, dry bread crumbs. Add to cooked, drained vegetables.—*Mrs. J. H. Morrison, Pennsylvania.*

Quick spice mix saves time when making pumpkin pies. Sift together 4 tablespoons cinnamon, 2 tablespoons ginger, 1 tablespoon nutmeg, 1 tablespoon cloves into jar; cover. Takes 2 tablespoons of mixture for each 9-inch pie.—*Mrs. William Amiehler, Wisconsin.*

Try this pot-roast variation. Brown a 2½-pound pot roast on both sides in 3 tablespoons hot fat. Season with salt and pepper. Combine 1½ cups cranberry sauce, ½ cup water, 6 whole cloves, and ½ teaspoon cinnamon. Spoon cranberry mixture over browned roast. Cover and roast in Dutch oven at 325° about 2½ hours. Meat will be spicy.

Try this ice-cream dessert. Dissolve 2 packages cherry-flavored gelatine in 2 cups hot water. Add 1 cup cold water and 1 cup pineapple juice. Chill until slightly congealed; whip until thick. Beat in 1 quart vanilla ice cream and fold in No. 2 can crushed pineapple, drained. Pour into ring mold; chill until set. Top with whipped cream and berries.

Dress from Bergdorf Goodman *Shown above, No. 5806,* CINNAMON. *Approx.* $7.95 *per sq. yd.*

for the luxury look of needlepoint

—it's "Shadowpoint"

Unique and elegant...at a dramatically low price! Firth brings you this newest fashion in broadloom—the luxury of a needlepoint effect at a price to delight your budget. Your first glimpse of the beautiful light-and-shadow design will tell you why Shadowpoint lends unusual distinction to any room. Come in and see Shadowpoint right now... you'll love its colors...its textured richness...and its price.

Women with a sense of style prefer

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broadlooms

SEND TODAY for "How to Achieve Charm in Decorating Your Home"—64 pages of stimulating decorating ideas for every type of home—inspirational, yet practical. Yours for 25¢ in coin.

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NO. 5801 PEWTER GRAY • NO. 5804 PATIO ROSE
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THE FIRTH CARPET COMPANY, Dept. 43
295 Fifth Avenue, New York 16, N. Y.
25¢ in coin enclosed for Decorating Book.

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FIRTH

Get a new slant on sewing with

The Amazing New Slant-needle SINGER

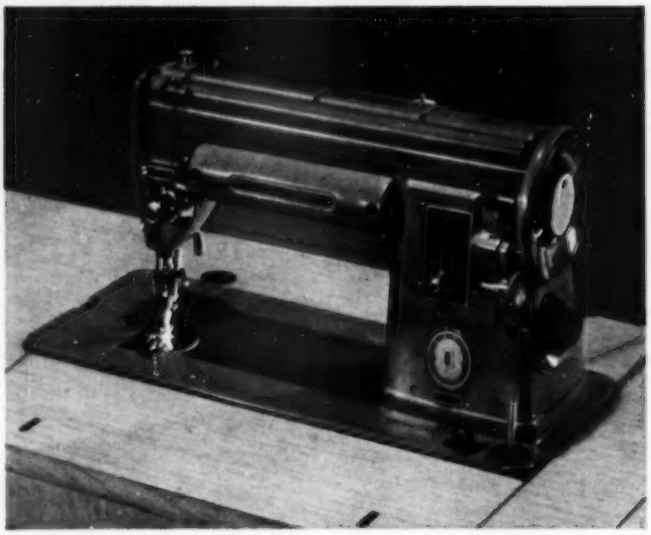
The only home sewing machine with a "slant" needle for easier stitching . . . better vision!

Here is one of the most exciting sewing developments in 100 years. The amazing new model in the famous SINGER family.

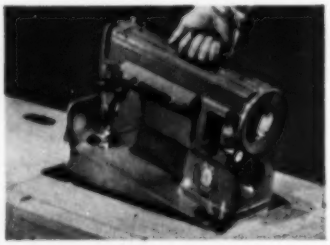
The needle slants *toward* you instead of being straight up and down.

Makes it easier to see where you're going; easier to "feed" and guide all types of fabric smoothly, perfectly.

Only SINGER—maker of the leading straight-needle and swing-needle (zig-zag) machines—brings you the exclusive patented *slant-needle* machine.



New eye-rest design in traditional black or new soft beige. Almost all moving parts concealed. A magnificent new model, in the already world famous line of SINGER* *Sewing Machines.*



The only machine that's a cabinet and a portable model all in one!

Now, for the first time, a full-sized, full-fledged cabinet machine—that you can use as a portable, too!

The slant-needle SINGER has a carrying handle concealed in the top. You can lift the machine out of the cabinet, carry it anywhere. Base of machine is fully enclosed, completely sealed.

Made of die-cast aluminum for light weight, sturdiness. Designed throughout to give you a new slant on sewing. Built to give you SINGER lifetime dependability.

The only machine with all these other smooth-sewing features!

- **Wide-range speed control.** Makes it easier to sew slower—or faster—than on any other machine!
- **Starts at a touch;** leaves both hands free.
- **Both knee and foot control.** An exclusive!
- **Seam-width guides** on the throat plate.
- **Drop feed for darning,** decorative stitching.
- **Flexible spool pins;** won't snap or break.
- **Simplified threading;** quickest, easiest ever!
- **Automatic bobbin winder.**
- **Sews forward or back** at flick of a lever.
- **Easy stitch-regulator** from fine to basting.

Available in unique, new-design Spinet Cabinet — and other styles!

New Spinet Cabinet — *designed* specially for the slant-needle SINGER. Beautiful in modern or period rooms.

Spinet — open. Note angles of the leaf and of the machine itself. Designed so you can sit more comfortably, see more clearly.

Modern Desk — one of several popular cabinets in which the new slant-needle SINGER and other models are available.

See it — try it — at your nearest SINGER SEWING CENTER

S* Don't be misled. SINGER sells and services its products only through SINGER SEWING CENTERS, identified by the Red "S" Trade Mark on the window, and listed in your phone directory only under SINGER SEWING MACHINE COMPANY.

There are more than 1200 SINGER SEWING CENTERS coast to coast . . . and more than 4000 SINGER service cars always ready to bring SINGER service right to your door.

SINGER SEWING CENTERS

There's one near you to serve you

This new SINGER available in the United States only.

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How to add the finishing touches

From page 43

mantel in your planning. You'll need a protective screen and irons, plus a basket or box for fireplace wood and kindling. Make your mantel important. Don't be satisfied with just a clock and a pair of candlesticks on either side of it. Why not try something distinctive like a collection of old plates, or a grouping of an old china teapot, cream pitcher, and sugar bowl at one end, balanced at the other end by a pair of brass candlesticks, or a large tray leaning against the wall?

And don't leave those walls naked and bare. Over the sofa try a grouping of pictures that fills the space above it. Not only can pictures be hung, but consider an unusual clock, a spoon rack, or hanging shelves that hold a collection of china or glass. Try using one wall in your bedroom or a hallway as a family gallery and group the pictures together in similar frames. If hanging them on figured wallpaper, use an extra wide mat to separate the picture from the paper.

When displaying your hobbies, such as a collection of glass or china, concentrate them in one place so they will show off to the best advantage. This also applies to small objects. They will look more impressive when grouped together than scattered around the room.

Avoid commonplace groupings, like a pot of stringy ivy at either end of the mantel. Give thought to your selection of small tables and lamps, making sure their size and height are in relation to the chair and sofa with which they are used. A small lamp and table would be all out of proportion to a large sofa, and the lamp would not provide adequate reading light.

When arranging accessories, follow the rules about dark on light and light on dark. For instance, against a dark wall, use light lamp shades or pictures. Vary sizes and shapes of objects in a grouping to add interest—but avoid mixing heavy, ornate pieces with small, delicate ones.

It will take time to collect the accessories you want for a room. Search carefully for the things you really want and that will fit perfectly into your room. These are the things that will add the finishing touches and make your rooms well dressed.

Successful Farming, film strip

Recipe for Color

For meetings, demonstrations, and clubwork, the new film strip, *Recipe for Color*, provides a half-hour program and lesson on the magic of color in your home decorating.

The complete package consisting of the film strip, commentary, and a dozen colorfully illustrated booklets summarizing the film is priced at $3.95. Additional booklets are available at 15 cents each or $1 per dozen. Send your requests to: *Successful Farming* Home Planning Service, 1716 Locust St., Des Moines 3, Iowa.

Poetry corner

Neighbors

Lifelong I have loved neighbors—
country neighbors,
Who love the land as I, too, love
the land;
Who speak the language that I
speak, who utter
The wholesome happy things I
understand:
Flowers and gardens, ripened fruit
and canning—
The thousand tasks that we in
common share,
The joys that are our own, the
rich rewarding
Of the golden acres spread forever
there.

This I hold as true, a country
neighbor
Is closer far than city neighbors are.
The blue smoke rising from a
distant chimney
Seems near and dear, and one by
one a star,
Blossoming at a far-off sill at
evening,
Is warm and friendly, and the paths
that lead
Between two country homes are
clear and precious,
Where neighbors go to meet each
other's need.

—*Grace Noll Crowell*

Fulfillment

It is so dry—no rain at all
For weary weeks; but now a squall
Is imminent. Wind rising weaves
With artistry, the crackling leaves
Into a tapestry of sound,
Then throws her pattern to the
ground.

The sky grows dark and darker yet,
Still, not a drop of rain has met
Dust-whitened grass . . . ah, now
it comes—
As quietly as a mother hums
A lullaby, rain fingers place
Their cooling touch on earth's hot
face.

—*Mrs. C. D. Sherbakoff*

TOPS IN TOOLS

TRUE TEMPER
TOMMY AXE

Here's one of the most useful tools you can have on your farm! Does the work of a heavy hatchet or light axe—perfect for fence building and repairing. Dynamically balanced power for chopping, driving, nail pulling. Highest grade tool steel coated with rust-resisting black. Hickory handle, fire hardened to resist weather and wear. Only True Temper makes this versatile tool—and you'll find it at your favorite hometown hardware store!

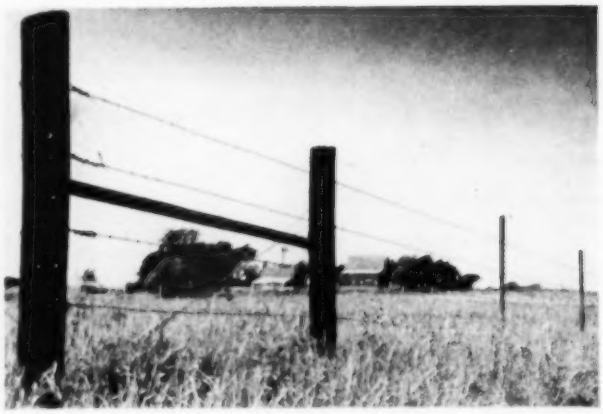
"DYNACUT" PRUNER
MODEL NO. D150

Now at a popular price you can get a husky, all-purpose anvil-type pruner that will give long, trouble-free service. Blade is forged from special alloy steel, hardened and tempered with a keen cutting edge. Comfortable handle makes it a pleasure to use ...even in close quarters.

TRUE TEMPER
CLEVELAND 13, OHIO
FOR OVER 100 YEARS, MAKERS OF FINE TOOLS, FISHING RODS, GOLF SHAFTS

Ideas in fencing

From page 33

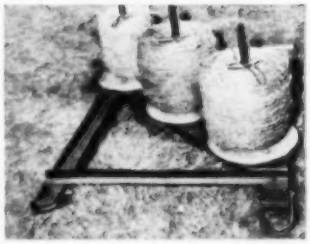


Line fence on Iowa State College farm uses four strands barbed wire, steel line posts. Regular wooden-post corner bracing is used. Barbed fence can be used where there are no hogs or sheep to be turned

◀ Corner bracing uses three 5-inch posts, 8 feet long. No. 9 wire bracing is left slightly loose when building so it can be adjusted later. Two-inch horizontal pipe counters upward pull

Preservatives add years to the life of ▶ posts. This post, pressure-treated with creosote before using, shows no signs of rot after being in ground two years

Two discarded wheels make handy wire reel for Ed and Will Gudeman, Iroquois County, Illinois. Wire reel slips over axle and is free to turn for unrolling



Three spools of barbed wire are unrolled ▶ simultaneously by Jesse Parr, Story County, Iowa. Spools of wire rest on diagonal plank bolted to sled runners. END

"FOR AIRCRAFT OR ONE CYLINDER DETASSELERS— OUR FIRST CHOICE IS CHAMPION!"

—says Mr. Carl Thorp (R) shown here with his father, C. W. Thorp and brother, Ernest, on the C. W. Thorp and Sons farm near Clinton, Ill.

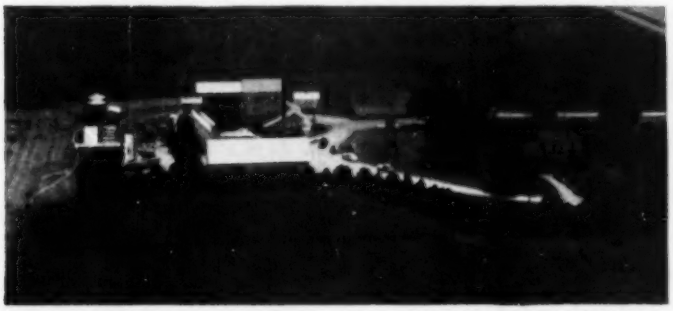
Self-powered detasselers—the granddaddy-long-legs of farm equipment—creep through the corn fields as workers remove the tassels from stalks in the cross breeding process.

C. W. Thorp and Sons, an associate of the well known Funk Bros. Seed Co. of Bloomington, Ill. produces, processes and merchandises some seven varieties of hybrid seed corn. The Thorps operate in four counties maintaining over 500 acres in seed corn production. About half of this is on their own farm and the balance is on land under contract. Other crops—oats, wheat and soy beans—are grown on the rest of the 650 acres operated by Thorp.

This specialized type of farming requires many units of motorized equipment. Their engines range in size from the one cylinder plants that power the slow moving detasselers up to the engines of the Cessna and Beech aircraft.

Carl Thorp, an active member of Flying Farmers, says—"Farm equipment is always busy equipment. Our machines, trucks and tractors have to be ready to go on a minute's notice and keep going day after day without engine failure. Our planes log many hours as we observe crop progress and spot our crews for their work in the fields.

"We know the importance of spark plug performance in keeping all of our equipment running properly. Experience over the years has given us a definite preference for Champion Spark Plugs. They're our first choice for dependability, long life and operating efficiency in every type of engine."



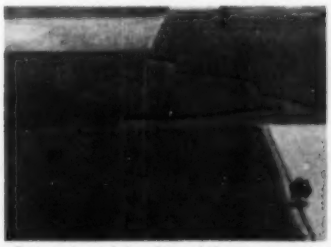
This group of buildings includes grain storage, warehouse, processing and equipment facilities.

Dependable

CHAMPION

Spark Plugs are Worth Asking for BY NAME

Mr. Carl Thorp and the Bonanza ready for an inspection flight over the Thorp properties.



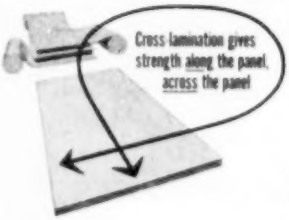
Pattern formed by detasseled corn rows in a Funk G hybrid seed corn production field.

Part of the Champion-equipped fleet that sees rugged service on the Thorp farm.

Send Now For This New Catalog of

FARM PLANS

ONLY PLYWOOD
brings you ALL the advantages of
TWO-WAY STRENGTH



In plywood, the natural along-the-grain strength of wood works two ways to give you a real wood panel that is extra strong, splitproof, puncture-proof and kick-proof . . . yet light in weight and easy to work with ordinary tools. Put these advantages to work for you on your next building or remodeling job. See your local retail lumber dealer.

HERE'S a "must have" for every farmer—a brand-new catalog of plans for modern farm buildings . . . buildings that are stronger, tighter, easier to build and maintain because they are built of Douglas fir plywood.

This useful catalog lists 34 plans available from leading agricultural schools, Midwest Plan Service and Douglas Fir Plywood Association. Every design has been carefully selected, every one tested and proved in actual use. Each listing includes illustration, description, gives source of plans. Here is a partial list of contents:

- Hog Feeders
- Hog Houses
- Farrowing Houses
- Hog Wallows
- Calf Shelters
- Farm Freezers
- Poultry Feeders
- Brooder Houses
- Grain Bins
- Feed Bins
- Nut Driers
- Many Others

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AMERICA'S BUSIEST BUILDING MATERIAL

MAIL THIS COUPON TODAY FOR VALUABLE FARM PLAN CATALOG

Douglas Fir Plywood Assn.
Dept. 2211, Tacoma, Wash.

Please send catalog of farm plans. I enclose 10c to cover mailing costs.

(Good USA Only)

Name.....

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City.....Zone...State.....

Election returns

From page 28

states must wait until all the votes are counted. Each has large cities and rural areas—which often vote in opposite ways. So there must be returns from at least half the city precincts and all the farm vote before a safe prediction can be made as to how a state will go.

The nation's population has grown and shifted in the past decade, and this year's election will be the first to reflect the Congressional reapportionment which followed the 1950 census. California now has 7 additional electoral votes because of this population increase, Florida has 2, and Maryland, Michigan, Texas, Virginia, and Washington each have 1. On the other hand, Pennsylvania lost 3 votes, Missouri, New York, and Oklahoma each lost 2, and Arkansas, Illinois, Kentucky, Mississippi, and Tennessee each lost 1.

If no candidate gets the majority of the electoral-college votes, the House of Representatives will elect the president. Each state will cast 1 vote, and the person getting 25 or more votes wins. It isn't going to happen this year, but a lot of queer things will, under the electoral-college system. **END**

Ladder folds —saves space

To keep the alleyway in his barn clear, Bert Coats of Black Hawk County, Iowa, built a hinged haymow ladder. The hinged ladder folds up against the barn ceiling when not in use.

When the ladder is unfolded, a brace at the back of the ladder locks against a ceiling beam. This holds the ladder steady.—*M. P., Iowa.*

Photograph: Pease

How you can "*Pep Up*" ailing acres... and make a good farm better with

FORD TRACTOR POWER

Dearbon

FARM EQUIPMENT

Dearborn Subsoiler. Solve undersoil problems, working as deep as 18 inches. Low priced, attachable to the Ford Tractor in one minute. "Double life" with reversible beam, and reversible point.

*Comparison of suggested list prices of the standard Ford Tractor and other leading standard 2-plow tractors priced with hydraulic lift.

What about those under par acres—the ones that are tired out, or too wet, dry or "hungry" to yield their best, or helpless to resist erosion? Helping them "get well" can give you a big boost in income.

And you can do this with a surprisingly small amount of work and expense with a Ford Tractor and the sturdy, low cost Dearborn Implements that team up so perfectly with it.

The Ford Tractor gives you power, easy handling and built-in Hydraulic Touch Control of most implements—lifting and lowering at a finger touch. Dearborn Implements give you efficient working tools that are easy to handle, quick to attach or detach and good at many different jobs.

Some of the ways you can use this really modern equipment to make a good farm better are shown below. Ask your Ford Tractor dealer to tell you about others.

DEARBORN MOTORS CORPORATION • Birmingham, Michigan

National Marketing Organization for the Ford Tractor and Dearborn Farm Equipment

What the name *Ford* on a tractor means to you!

LOW FIRST COST
You can probably save from $50 to $500* over other two-plow tractors with comparable equipment.

LOW OPERATING COST
Thrifty to run; economical to maintain year after year.

GOOD SERVICE EVERYWHERE
Just call your nearby Ford Tractor dealer for prompt service.

PARTS ALWAYS AVAILABLE
Genuine Ford parts availability keeps all Ford products ready to go.

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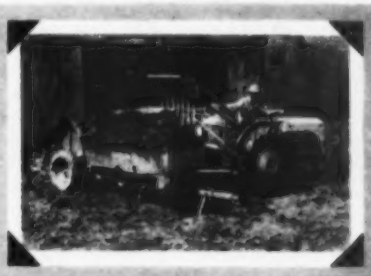
Outstanding performance; easy to use for more different kinds of jobs.

QUALITY CLEAR THROUGH
High quality standards, kept high by constant test and inspection.

TOP VALUE AT TRADE-IN TIME
Even after years of use, Ford Tractors bring good prices.

For about the price of a good purebred heifer calf, you can buy the quick-attached, big capacity Dearborn Rear Mounted Loader!



Renovate, cultivate, chisel, control weeds and do mulch tillage with the stout Dearborn Field Cultivator.

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Ford TRACTOR

Ford Farming MEANS BETTER WORK ...MORE PRODUCTION

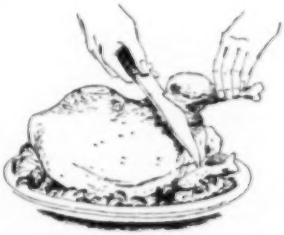
How to carve a turkey

Here's a practical way to cut up the bird whether you're serving all of Tom Turkey or just a half or quarter.

These illustrations show you the side-style operation on a whole turkey. If a small family makes a half turkey more practical, your carving procedure will be the same. And if a quarter turkey finds its way to your table, follow the cutting instructions that apply to the quarter of the bird you are serving.

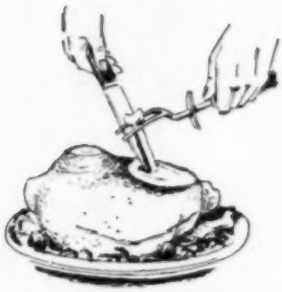
There's no need to be embarrassed when you start to carve your turkey this Thanksgiving—if you learn how ahead of time.

1 Remove the wing tip and the first joint. Hold the wing tip firmly with your fingers. Lift up, and cut between the first and second joints. Put the wing tip and the first joint portion on the side of the platter. This part usually isn't served. Leave the second joint attached to the turkey.



2 Remove drumstick. Hold the end of the drumstick, and lift it up and away from the body of the turkey. Disjoint it from the thigh or the second joint of the leg. This second joint is left attached to the bird. Put the drumstick on a side platter for slicing the meat. Hold the drumstick upright at a convenient angle, and cut down toward the plate, parallel to the bone. Turn the drumstick to make uniform slices.

No need to be embarrassed when you are called upon to carve. Follow these hints and you will do the job like a professional



3 Remove the thighbone. Anchor the fork where it is most convenient to steady the turkey. Cut slices of thigh meat parallel to the body until the bone is reached. Run the point of your knife around the thighbone, lift up with fork, and use fork or fingers to remove the bone. Then slice the remaining thigh meat. The choice dark meat above the thigh in the spoon-shaped section of the backbone is called the "oyster." Use the point of the knife to lift it out.

4 Slice the white meat. Begin at the front end of the turkey, and slice until the wing socket is exposed. Remove the second joint of the wing. Continue slicing white meat until you have enough, or until the breastbone is reached.

5 Remove the stuffing. Slit the thin tissue in the thigh region with the tip of the knife. Make an opening large enough for a serving spoon. The stuffing in the breast can be served by laying the skin back onto the platter. END

All of these parts on top of your stove

are easy to clean with S.O.S

Burner drip-pans – where spatters cook on, use S.O.S. Remove all those stubborn spots, quickly and easily!

Griddles are *easy* to clean with magic S.O.S.! Burned-on food cleans off *fast*– your griddle gleams like new!

Pull-out trays which catch run-overs from top of stove require frequent cleaning – and S.O.S. is just the cleanser for the job!

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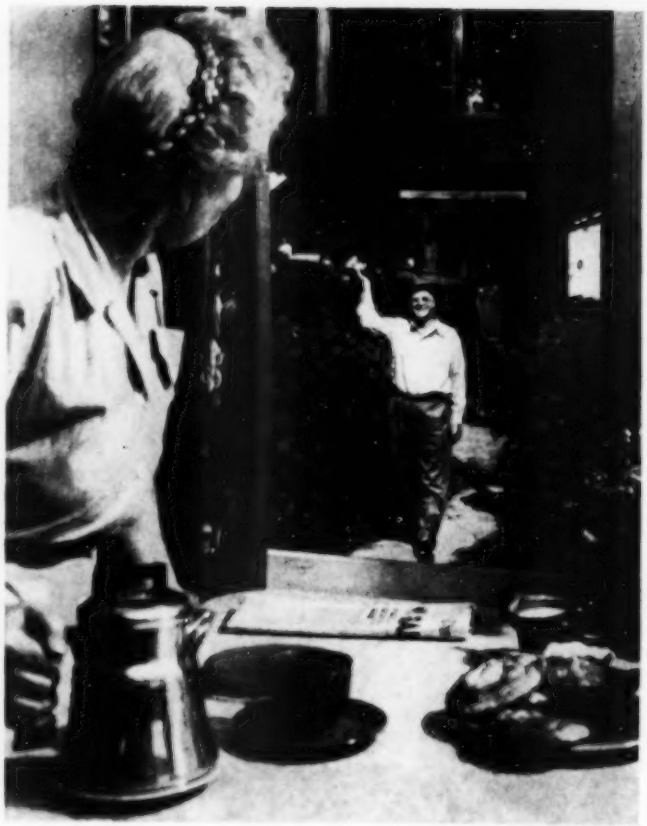

Photograph: Pease

Will you stay young?

Good health in later years as well as zest and vigor today start with smart daily living habits

By Anna Taylor Howard

Thanks to medical science, Americans are living longer and longer lives. At the last count, 11,500,000 of us were at least 65. Chances are, by 1975 there will be close to twice that many. According to Dr. Louis I. Dublin, Metropolitan Life Insurance Company, many of us can look forward to 14 or more years after we reach our middle sixties.

Yet despite modern science and wonder drugs, whether or not you *enjoy* those extra years in good mental and physical health still depends a great deal on you.

Few people can suddenly change from the routine of a working lifetime to days of idle leisure and stay happy. In that respect, farmers are more fortunate than the city worker who usually is retired at 65. Many farm couples stay on their home places, carrying either a full or partial work schedule, after the children are grown. They hold on to their independence, their security and personal respect, *and* a healthy mental outlook.

Staying in good physical health is a different story, mostly because farming is one of the most hazardous occupations in America today. There are some 1,300,000 injuries and 15,500 accidental deaths among farm people each year.

Falls account for over half of the accidents. People slip, stumble, or trip over an object, lose their balance while riding farm machines, tumble downstairs, off ladders, and out of haymows, or slip on ice and snow. Such casualties do far more than incapacitate a farmer for 24 days or so and add costly expense. They lead to discouragement because they confine the

[*Turn to page 73*

Another muscle in America's arm

HERE'S a Western Electric installer. He's connecting more telephone equipment at an aircraft plant so more war planes can speedily be put into our skies. Each telephone added, every new bank of equipment installed, makes America stronger. At Western Electric we're working hard at the urgent job of producing these things. It's our *regular* job because we're the manufacturing unit of the Bell System.... have been for seventy years.

But beyond this, the specialized skills gained in a lifetime of telephone work are now more and more being called on by America's armed forces. For them we are making such electronic marvels as radar fire control systems for anti-aircraft and naval guns, for bombers, for guided missiles.

Western Electric

MANUFACTURING AND SUPPLY UNIT OF THE BELL SYSTEM

3 generations tell you why

"For three generations my family's clothes have been washed clean with Maytags," says young Mrs. Westley Ensign. "My Maytag has so many wonderful features." She particularly likes the double-walled aluminum tub, Maytag Roller Water Remover, Gyrafoam washing action.

Maytag is the Automatic for you

"Since I was a girl, Maytag's been a household word," says Mrs. Floyd Ensign, right. "So naturally I chose a Maytag Automatic!" This member of a three-generation Maytag family pours tea for her daughter, Mrs. Westley Ensign, and her mother, Mrs. William Lentz, all of Duluth, Minn."

Maytag Dutch Oven Gas Range. Most efficient, best-insulated oven you can buy. Speedy gas cooking. Easy to clean. Oven window. The Maytag Company, Newton, Iowa. Washers • Ranges • Freezers • Ironers.

"I wouldn't have believed an automatic could wash clothes so clean," says Grandmother, Mrs. William Lentz. Yes, only the **Maytag** Automatic has famous Gyrafoam washing action ... the agitator action originated by Maytag. Gentle water currents wash out even the most stubborn dirt. Safety Lid ... open it, washing action stops; close it, washing resumes. It's "children-proof." No bolting down ... perfectly balanced. Adjustable legs fit uneven floors.

"My automatic leaves clothes so easy to iron," says Mother, Mrs. Floyd Ensign. The Maytag Automatic spin-dries gently ... clothes have no hard-to-iron wrinkles. You'll like the completely automatic operation . . . wash, rinse, and spin-dry, and Maytag even turns itself off! Up-and-over rinse flushes dirt *away* from clothes *not through them*. Built by **Maytag** . . . and that means you can expect many extra years of dependable performance.

Will you stay young?

From page 70

victim to his home and cause him to lose strength and muscle tone. Because of slowing reflexes and less physical strength, the older person is more often a victim of these accidents than the younger person.

Practically all these common mishaps can be prevented, however, with a little care and a slower pace, particularly as you grow older. Why not increase your chances of staying in good health in later years as well as enjoying more zest and vigor today? It's a matter of being smart about your living and perhaps changing to a "take-it-easy" attitude.

First, keep in good health. Second, understand the physical changes which aging brings. Third, keep a reasonable routine. Fourth, check your home and farm at intervals to reduce accident hazards to a minimum.

What's wrong with many oldsters is not age itself so much as a disease or defect that could have been nipped in the bud or at least controlled if caught earlier. Chronic illnesses don't suddenly strike in old age. They creep up gradually through the years. *Complete regular physical examinations* which catch diseases in the early stages are only common sense.

Diet has much to do with the way you feel. About 10 years ago, a study was made of older people—especially women—who came to the Massachusetts General Hospital in Boston, complaining of irritability, mental disturbances, and general discontent. It was found these people lived mostly on tea, toast, and cookies. When the individuals were placed on a well-rounded diet, the symptoms disappeared.

As people grow older, they live happier and longer with somewhat smaller, well-rounded diets—meals high in protein, mineral, and vitamin content, low in fats, and simply cooked. Frequent small meals are more easily handled than large ones, especially at noontime. A good breakfast, a light noonday meal, and a hearty supper are advocated.

Recent studies at Washington University, St. Louis, Missouri, show that irritable, unhappy people have more accidents than happy ones. *A good diet* helps build a state of well-being that cuts down liability to accidents.

Remember that digestion is not a push-button, purely mechanical process, but one that needs your help. Avoid overloading your stomach, eating rapidly, or eating solids when upset.

Plan a rest period at least once a day before fatigue overtakes you. Getting overtired can also make you "accident-prone." Stretch out on the downstairs sofa for 10 or 15 minutes in midmorning or before lunch if you've been working in the fields, and again before dinner.

Deafness, failing vision, decreased mental alertness, and poor co-ordination of the arms and legs cause many accidents among older persons. Be extremely careful around mechanical tools, vehicles, and animals.

Be alert to any physical weaknesses and make allowances for them by adopting a slower, more relaxed pace in your work. Sit down and relax when you are confused, disturbed, or annoyed, and avoid plunging into things. A deaf person can set up some visual reminders to warn him of danger. At the bull pen, for example, and on his car. The farmer with failing vision can make extensive use of white and red paint to call attention to steps, low doorways, and other visual hazards.

Here are some hazards about the farm and good safety practices you'll want to consider:

Floors: Wax linoleum very scantily and polish wood floors lightly. Do not use scatter rugs unless you tack them down, use a nonslip pad under them, or apply a rubber undercoating. If you use footstools with your easy chairs, slip them out of the way when you get up.

Avoid stepping into the kitchen or bathroom quickly with wet shoes, as many falls occur in this manner. Wear shoes with built-in arch supports, that tie on well, have even heels of low or moderate height. Rubber heels cause less jar and thus decrease fatigue.

Stairs, steps, ladders, haymows: Put up single or double handrails wherever there are steps, and make sure all steps are well lighted. Rig up a back-porch light if the rear entrance is used at night. Make certain the haymow steps, your ladders, and stepladders are in perfect condition. Better check them for safety than take chances.

Ice and snow: Watch the back steps in icy weather and use coarse salt or ashes freely. A half-inch strip of adhesive tape placed across the sole of your rubbers or boots will cut down the possibility of skidding in wet and icy weather. Avoid the overexertion from shoveling heavy, deep snow by hand. Get help or invest in a mechanical snowplow.

Machinery: Farm equipment is the second major cause of farm accidents. Cornpickers, tractors, combines and threshing machines, haying equipment, and power saws present the greatest hazards. Many accidents can be prevented by using the machinery correctly and by having the machinery in good working order.

Work more slowly and be extra careful when boarding or getting off a machine. Older people's bones seem to snap spontaneously because there often is less muscle tissue, protective covering against injury. If you race against time it's easier to lose your balance.

Your life span may be lengthened if you'll keep fit, calm, and undisturbed, and have a wholesome respect for safety. Take time out for a personal and safety check-up. Make your precious years both happy and satisfying. **END**

Brilliantly colored accessories may be hard to find, but they're easy to *dye* with All Purpose Rit. Try dipping gloves in vivid Rit Scarlet or tinting slippers to match your dancing dress. Or set a plain pearl necklace a-glow with precious color. Simple directions in every box of All Purpose Rit—America's favorite tint and dye.

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The finest dye . . . the *high concentrate* dye . . . and only 25¢

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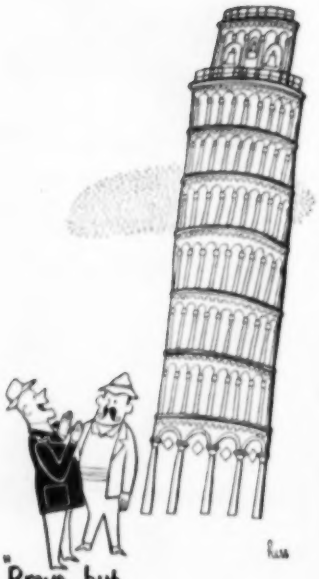

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1,500 new rooms now
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Southern feeder cattle

From page 35

And beef heifers 1 and 2 years old were up 47 percent. In contrast, dairy cows increased only 4.5 percent and dairy heifers 15.8 percent.

No definite figures are available as to numbers of feeder cattle now moving from the South to the Cornbelt. It is known that many thousands of cattle are being assembled in local areas in the Southern states and shipped to destinations in other states from Kansas east to Pennsylvania. Many of these cattle are purchased at auctions by traders and commission men who move them north. At many local points there are dealers shipping one or more cars of stocker cattle throughout the year.

It is a fact that at present most of the stock cattle available for sale are moving to areas *within* the South. W. H. Gregory, livestock marketing specialist in Alabama, reports that a survey showed 250,000 cattle went back to farms in that state during 1951.

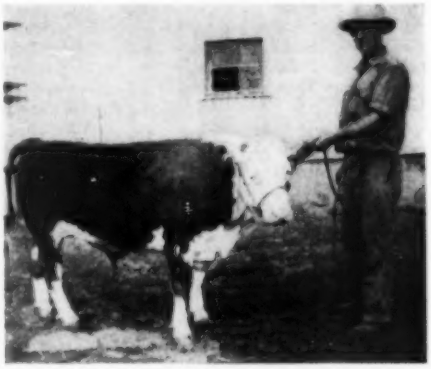
Charles E. Bell, Jr., extension livestock specialist in Georgia, had this comment to make: "The rapid expansion of pas-

[*Turn to page 76*

At this Southern feeder-cattle auction, the animals are numbered in the ear as they are unloaded at the public auction house

Branding paint is another method used for dividing cattle into different grades and classes at one of many Southern auctions

Here is a typical Southern steer now on feed at the A. J. Euler farm, Weston, Ohio. Steer is one of a load brought to Ohio from Virginia. Euler also feeds some native steers. See the picture and legend below



This is one of a group of native steers being fed along with the Southern cattle on the Euler farm. There is little, if any, difference in quality between the two groups now on feed at Euler's Ohio farm

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There's no need to worry when the mercury drops if your car is protected with Peak . . . the all-winter, all-weather anti-freeze. One filling is all you need for complete winter protection. You avoid the fuss and bother of check-ups after every warm spell . . . Peak won't evaporate or boil away even on the warmest day. What's more, an *exclusive* combination of anti-rust ingredients keeps the cooling system clean all winter . . . prevents rust and corrosion and clogged radiators. Why not see your serviceman today? Let him clean the cooling system and put it in tip-top shape. Then, let him install Peak and your winter worries will be over. PEAK ANTI-FREEZE *is a product of Commercial Solvents Corporation.*

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Rust? NEVER! NEVER!

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PEAK . . . THE ALL-WINTER . . . ALL-WEATHER ANTI-FREEZE

Extra Tough Extra Good-Looking!

VELVET-LIKE in smoothness . . . RUBBER-LIKE in toughness

IT'S REAL FUN TO PAINT WITH THIS NEW BRUSH—With Pittsburgh's new FLEET-WING Wall Coater, paint goes on far more easily and quickly. Here's a brand new painting tool that is astonishingly light and easy to handle. Covers 7 inches in width at one stroke.

CLEANS IN A JIFFY—New *rubberized* Wallhide is ideal for a home full of lively youngsters because it can be washed so easily. Even stubborn stains such as grease, crayon, ink spots can be cleaned off without harm to the surface.

● What a finish for toughness and beauty! Pittsburgh's new Wallhide *rubberized* Satin Finish comes up smiling after countless rugged bouts with hard-playing youngsters! The *rubberized*, non-porous surface of this revolutionary new wall paint resists dust and dirt—won't chip, crack or rub off—stay beautiful and fresh-looking through years of hard usage. Washes off quickly and easily. Even inexperienced painters get a color-perfect finish. Ask your Pittsburgh Paint dealer to show you the wide variety of modern, attractive colors.

IT'S RUBBERIZED

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PAINTS • GLASS • CHEMICALS • BRUSHES • PLASTICS

PITTSBURGH PLATE GLASS COMPANY

Southern feeder cattle

From page 71

ture acreage in recent years in Georgia has created a great demand for stocker-type cattle. Many stockmen do not keep enough breeding cows to utilize all their pastures and so depend on buying extra cattle to grass-feed for market. In all probability, in a year or two, this local demand will be satisfied *and there will be more and more cattle to ship out of the South.*"

One factor which cuts supplies of feeder calves moving out of the South is the widespread practice of creep feeding. This results in calves' carrying more finish than is desired by feeder buyers. Packers have been buying these calves, but it is believed the saturation point in demand has been about reached.

There are fairly definite areas of stocker- and feeder-cattle production in most of the Southern states. For example, in Tennessee, according to M. B. Badenhop, agricultural economist, there is the upper east Tennessee Valley where cattle are mostly shipped to feeders in Virginia, Pennsylvania, and Ohio. Another promising area is the Northern Highland Rim section in north central Tennessee around Cookeville. Cattle from here move into Kentucky and Indiana. Southwest Tennessee is an up-and-coming stocker and feeder section.

J. S. McKewen, livestock specialist in Mississippi, reports stock cattle moving out of 16 principal points. These cattle are shipped principally to Kansas, Missouri, Illinois, Kentucky, Indiana, Pennsylvania, and West Virginia.

In Alabama, principal production areas are the Black Belt and adjoining areas centered around the cities of Montgomery, Selma, and Demopolis, and the Tennessee Valley production around Huntsville. Alabama cattle, W. H. Greg-

> **Let us so endeavor to live that when we come to die, even the undertaker will be sorry.** —*Mark Twain*

ory says, are moving to Illinois, Indiana, Ohio, and also to Kentucky, Tennessee, Virginia, and West Virginia.

The state college extension and marketing specialists know these areas and *can advise buying agencies and feeder buyers accordingly.* A buyer can be directed to specific localities.

Large livestock auctions are the principal sources for stocker and feeder cattle. Other important sources are the calf sales in several of the Southern states. Cornbelt feeders are now patronizing several of these sales.

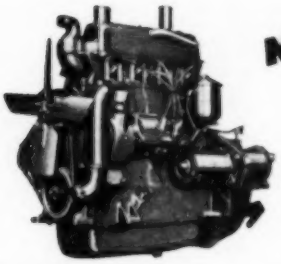
Calf sales are promoted by the extension and marketing specialists. Cooperating with them are officers and members of the state livestock and breed associations. Both steer and heifer calves are sorted into grades by weights and auctioned.

[*Turn to page 78*

New Massey-Harris 3-plow 33

MORE POWERFUL

MORE ECONOMICAL



NEW

MORE POWERFUL . . . bigger overhead valve engine, 201 cubic inches, removable sleeves, positive valve rotators, forced cooling and pressure lubrication.

NEW

COMFORT . . . EASIER CONTROL with Massey-Harris Velvet-Ride Seat and full-width, full view operator's platform . . . offset gear shift . . . handier throttle.

NEW

EASE and efficiency with the Massey-Harris DEPTH-O-MATIC HYDRAULIC SYSTEM . . . 2-way, 2-speed hydraulic control of mounted and pull-behind tools. Powers implements into or out of ground. Assures positive, uniform depth settings.

BIGGER . . . more powerful . . . more capable . . . the new Massey-Harris 33 gives you a degree of efficiency never before approached in the 2-3 plow tractor field.

It takes 2 or 3 fourteen inch bottoms around the slopes, up the grades and through the tough spots . . . handles 6- or 7-foot combine, a 2-row corn picker and loaded wagon anywhere in the field . . . takes a 4-row planter — 3-row lister — a 2-row bedder where other tractors bog down. It discs, cultivates, loads . . . does sub-soiling on less fuel.

The 33 puts out more work on the belt . . . grinds feeds, operates the silo blower, pumps water, sprays.

And with its Constant Running Power-Take-Off, the 33 gives you independent control of power and operation. You stop the forward travel of the tractor, independent of clutch operation, and retain full power delivery to the power take off. This means less clogging . . . faster field operation . . . makes your time more productive.

Check the features on the 33 . . . the bigger engine, better traction, full view body design, the constant running P.T.O. . . Then see your Massey-Harris Dealer for an on-the-farm demonstration. Drive the 33 under your own conditions . . . get the feel of power and efficiency, the ease and comfort of Massey-Harris design. Like farmers all over the country you'll want to Make it a Massey-Harris. For complete tractor booklet, write: The Massey-Harris Company, Quality Ave., Dept. L-110, Racine, Wisconsin.

NEW

CONSTANT RUNNING P.T.O. . . . keeps your combine, baler, chopper or picker running when the tractor is stopped. Reduces clogging . . . eliminates shifting, prevents overloading. Gives you independent control of power and operation. 5 forward speeds.

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Sure, there are other ways to heat your home, but—

You can't beat COAL FOR COMFORT!

No matter if you have room heaters or a furnace, when you heat your home with coal you enjoy the most comfortable heat in the world—and here's why:

Steady warmth—only coal burns with a *continuously* glowing fire that spreads warmth evenly throughout the house. This steadiness helps eliminate "cold pockets"... discourages drafts caused by up-and-down room temperatures. No "all-on," "all-off" fuel can give you such steady warmth.

Greater economy—in most localities it costs less to heat a house with coal—up to ⅓ less than the cost of oil. For coal users that's money in the bank!

Dependability—you can safely store a full winter's coal supply. Unlike users of other fuels, you'll never have to worry about snow-blocked roads halting fuel deliveries.

3 WAYS TO GET EVEN MORE FROM COAL:

Add automatic draft control to your coal heater. You can get a regulator that automatically adjusts the draft . . . prevents "overheated" or "cold" stoves . . . saves fuel. You can install it yourself.

Modernize your hand-fired furnace. This automatic clock-controlled heat regulator will give you complete day-night control of your furnace drafts. Maintains even, healthful temperatures, saves fuel, and frees you from many trips to the basement.

Modern coal stokers. No coal handling with these automatic stokers. They feed coal directly from bin to fire at exactly the right rate at exactly the right time . . . quiet, dust-free operation.

FOR COMFORT AND ECONOMY

YOU CAN COUNT ON COAL!

BITUMINOUS COAL INSTITUTE, A Department of National Coal Association, Washington, D. C.

Southern feeder cattle

From page 76

Most states make three grades which include Choice or Fancy, and Choice, Good, and Medium. Calves are inspected on the farms and selected prior to sale. They must be vaccinated for blackleg and shipping fever at least 10 days prior to the sale. All calves entering the sales ring must be sold.

The calf-sale program is gaining rapidly. Virginia leads the states with 23 sales scheduled in 1952. Allen Randolph, executive secretary of the Virginia Beef Cattle Producers, expects 25,000 calves to be handled through these sales this year. In 1951, 17,278 calves were sold through 22 Virginia sales.

One of the Extension Service men in Virginia remarked recently: "Our calf sales in the past 10 years have done more to improve quality of cattle than all our efforts for the past 30 years." Many cattle producers in the South are recognizing that Cornbelt feeders are sticklers for quality and so they are trying to make their cattle better every year. Each fall, high-grade Angus and Hereford calves are offered in increasing numbers.

In every state in the South, many farmers and stockmen have established cattle herds in the past 5 to 10 years. Most of these are commercial herds, but many purebred herds are being started. These breeders know they will have a ready, local market for their purebred bulls, heifers, and cows.

Many cattle producers in the Deep South believe that best results can be obtained by crossing Brahmans on the English breeds rather than attempting to maintain straight Hereford, Shorthorn, or Angus herds. But a Florida cattleman, P. E. Williams of Davenport, has achieved success by crossing Shorthorn and Hereford bulls on native Florida cows.

In 1935, Williams purchased 350 pinewoods cows and some good Shorthorn and Hereford bulls for his 6,000-acre ranch.

In the years following, Williams handled his ranch operations like an experiment station. He mixed in Shorthorn and Hereford breeding and then alternated with crossbred bulls to retain the desirable characteristics of the range cow. He keeps a separate pasture for heifers, which are not bred until they are 2 to 2½ years old. Bulls are run with the herd from March 15 to August 15.

Williams has pioneered in his section in producing improved pasture. Now he has 3,000 acres of good grass and most years he takes the entire herd through on grass alone. Last winter he fed 1 to 3 pounds of a 16-percent protein supplement.

"I wanted to get into the cattle business in Florida even when I was a small boy living in Virginia. My lifelong ambition has been to produce a feeder calf that would be acceptable to the Cornbelt," Williams said.

Williams has succeeded in doing what

he set out to do. This year he has contracted his calf crop to an Indiana feeder who has watched his breeding program for years. "Since 1937," Williams said, "I have increased the average weight of my calves at 7 months from 287 to 509 pounds. I know that Cornbelt feeders are after low-set, blocky calves with good quality and conformation. At my ranch we aim to produce that kind."

The final test, of course, is how these cattle perform in the feedlot. In 1950-51, 64 of Williams' steer calves were put on feed at the Florida Experiment Station at Quincy. These calves were divided into four lots of 16 each and fed a ration of ground snapped corn, cottonseed meal, and peanut hay. Citrus molasses replaced half of the corn in two lots. The calves were fed for 178 days which included 28 on pasture. The calves yielded 59.92 percent when slaughtered and made 2 pounds average daily gain. Carcasses graded 3 Prime, 57 Choice, and 4 Good.

Producers in the eastern Cornbelt have about $1 per hundred advantage in freight rates in purchasing cattle from the South over buying them from west Texas or New Mexico. There are fewer feedings necessary in moving cattle from the South to the eastern Cornbelt, and probably less shrink.

There are no regulations or restrictions on the movement of cattle from the Southern states to the Cornbelt as long as they are healthy. Any livestock shipped must, of course, meet the health requirements of the livestock sanitary officials of the state where the animals are being sent. The shipper must comply with the regulations of the state of entry.

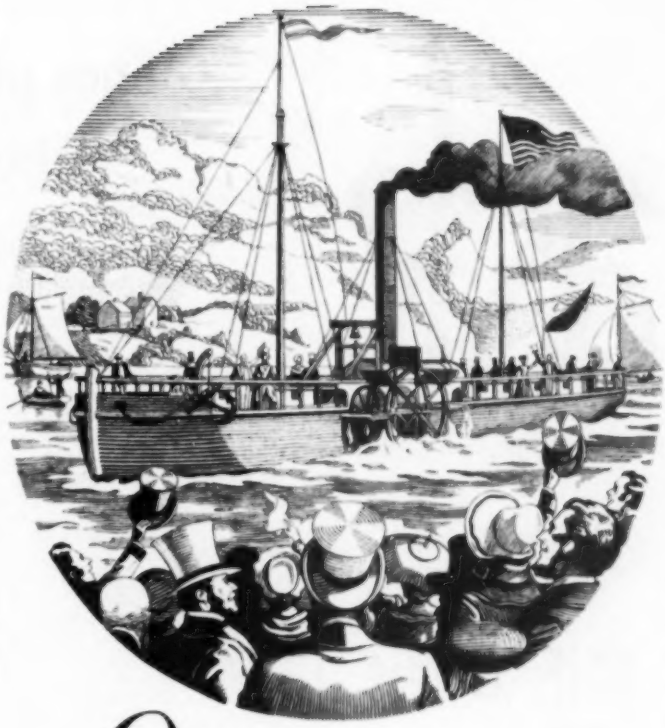
As would be expected with a new, rapid development, numerous people who possessed more enthusiasm than knowledge launched into the cattle business in the South. If the going gets tough, some of these operators may not weather the storm.

Producers still have much to learn about cattle production in the South. In many sections it is a comparatively new enterprise and many stockmen do not have the background for raising cattle. However, Southern farmers are learning fast—many times the hard way—but they are learning. They are listening to the extension and marketing specialists.

The beef boom in the South has come during a period of high income. Southern stockmen have been riding high on cattle profits during the past few years. What will happen during a recession?

The stockman who has grown into the business, improved his cattle, developed good pastures, and is set up to grow plenty of feed can weather a period of low prices. He can stay in business though some of the others will not.

Producers in the South can take advantage of their favorable climate, rainfall, and relatively low-priced land. The South needs the cattle business and a good market for cattle to insure a prosperous agriculture. This section is in the cattle business to stay. END



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Tampax is sold at drug or notion counters in 3 absorbency-sizes: Regular, Super, Junior. Month's average supply goes into purse. Economy box lasts 4 months. Tampax was invented by a doctor for either married or single women. Tampax Incorporated, Palmer, Mass.

Accepted for Advertising by the Journal of the American Medical Association

Guinea pigs taught them how to eat

If your children turn down wholesome food, fill up on stuffers between meals, try this teacher's clever idea

By Bessie C. Farnham

Last winter many of the 10- and 11-year-olds in my classes were pale and listless and came to school tired. The absence rate was high; there were far too many upset stomachs and colds. Some of the children had breaths inexcusable in people so young. The school physical examinations showed a far above normal number of cavities in the children's teeth.

I had only to watch the children to learn one of the main reasons. Most of them came from average-income homes where the parents were intelligently interested in the health of their children, where wholesome food was served. For years, our school had taught sound diet practices through science and health courses. Yet during the lunch hour, the boys and girls refused to eat fruits and vegetables. Day after day they threw away the most valuable foods.

Most of them spent their allowances at the drugstore on soft drinks, ice-cream concoctions, stuffers of all kinds. They would chew candy and gum from 9 in the morning until the supply was exhausted in the afternoon. How could we get them to eat a good, balanced diet? It seemed as though we'd tried everything.

Finally we hit upon an idea. Through the help of Cornell University we started a guinea-pig experiment which turned out to be one of the easiest, most effective lessons I've ever taught.

Cornell gave us two guinea pigs, a month-old brother and sister. In the school attic the children found two wire cages, a discarded kindergarten table, and an old desk. From the science cupboard we borrowed a gram scale. The cages were placed on the table alongside the scale in the front of the room.

The children fed one guinea pig only rabbit pellets and water. The other was given rabbit pellets and water plus fresh vegetables—cabbage, lettuce, carrots, spinach—and orange or tomato juice. Each child was given a chance to clean the cages and feed the pigs.

On weekends the children took the little pigs home so they could be cared for and kept warm. We weighed the animals three times a week, and each child kept a folder of the foods, the weight and behavior changes.

I made a strong point of showing that rabbit pellets provided a balanced diet *except* for vitamin C. We voted to change the diet when the one guinea pig showed a marked loss of weight and not wait until his gums bled or his teeth fell out.

To the great concern of the children, in 10 days the one little pig showed a definite loss of weight, was restless, and did much more squealing than his lucky relative. The children were greatly disturbed and voted to shift the diets after two weeks.

Robert asked if his teeth would fall out if he didn't eat vitamin C foods. I answered him honestly as I did each question asked. Louise reported that she had eaten all of her salads since the experiment started, "except for the mayonnaise." The children watched each other and vigorously protested if one of them didn't eat his vegetables and fresh fruits.

At the end of two weeks we shifted the diets just to be very sure it was food and not some other factor that affected the weights. The first little pig, who now was enjoying vitamin C foods, began gaining immediately. The second pig, who now had only rabbit pellets and water, gained at first; then in 10 days she, too, showed a loss of weight. In two weeks the graph took a deep plunge and she was an unhappy little pig indeed.

So we ended the experiment. When the folders were turned in at the end of the month and graded, no one in the room doubted the necessity for vitamin C.

The children were entirely responsible for all the care of the animals. All food was donated and we didn't spend any money directly. I found that having the guinea pigs in the room did not cause a disturbance; instead, they had the opposite effect. We had a common interest and delight in the little creatures.

While I cannot in all truth report that by the end of the experiment all the pupils were rosy-cheeked, sweet-breathed examples of good eating, I can report a definite improvement. Most important, I am positive that the experiment did more to emphasize what the parents and teachers had talked about without enough results. These children now know the need of a balanced diet.

Do try some similar experiment in your schoolroom or at home. It is simple, easy, fun, and so effective. **END**

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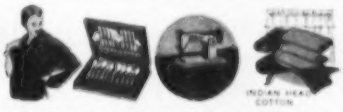
1907 OTHER BIG PRIZES



2ND PRIZE—8 Ranch Mink Stoles. 3RD PRIZE—8 National Sterling Place Settings for 8. 4TH PRIZE—8 Free-Westinghouse and 8 New Home Sewing Machines. 5TH PRIZE—5 prizes of Indian Head Cotton Fabrics including draperies, slip covers and curtains for your entire home! *Plus*... 187 National Silverplate 53-Piece Services... 187 Nasco Ambassador 53-Piece Dinnerware Services... 187 National Silverplate 4-Piece Tea Services... 187 Elgin-American Pearl Necklace and Earring Sets... 187 Elgin-American Compacts... 374 Personna Carving Sets... *And* 561 pairs of famous Acme Pinking Shears!

DAWN ADDAMS
In the role of Priscilla
in the brilliant MGM American Epic
"PLYMOUTH ADVENTURE"
(Color by Technicolor)

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...is two-fold. To express our thanks to American Homemakers for their patronage and confidence in us all through our 92 years in business. And to demonstrate to you why, now more than ever before, your wisest investment is a 100% American-made Free-Westinghouse or New Home Sewing Machine. There is no obligation to buy. Simply by visiting your dealer you'll learn *facts* about American-made versus foreign-made machines that you have a *right* to know. So visit your dealer now. Enter the American-made Fashion Award, receive your Free Gift. It's *fun*, it's easy—and you can be the big winner!

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Books

for your pleasure and profit

By Robert West Howard

I'm convinced that the most enduring gifts a youngster can receive are a stack of books under the Christmas tree.

Thanks to mass production, excellent children's books can now be purchased in almost any town (or by mail direct from the publisher) at 25 cents up. The best buys in the low-price field are, I believe, the **Little Golden Books** (Simon & Schuster, Rockefeller Center, New York, New York, 25 and 35 cents). More than 182,000,000 copies have been sold during the past 10 years. There are 161 titles.

For the toddler crowd, I particularly recommend **Doctor Squash, the Doll Doctor, Wheels, Walt Disney's Noah's Ark, Prayers for Children, The Little Golden Book of Dogs, Howdy Doody and the Princess,** and two swell "Mary Poppins" stories, **The Gingerbread Shop** and **Mr. Wigg's Birthday Party.**

The 5-year-old's amazing world of make-believe will also welcome Rudolph Guttman's new picture-book series: **I Wish I Were a Nurse, I Wish I Were a Fireman, I Wish I Were a Dancer, I Wish I Were a Farmer** (Garden City Publishing Co., 575 Madison Ave., New York, New York, 50 cents each). Each book unfolds into a 5-foot color panorama of its profession. Figures and work tools can be punched out to play with.

Every once in a while, an author produces a "children's book" that's interesting to every member of the family. Dr. R. W. Eschmeyer has performed this feat in his true-to-life stories: **Billy Bass, Tommy Trout, Freddy Fox Squirrel, Bobby Bluegill, Charley Cottontail,** and **Bob White** (The Fisherman Press, Inc., Oxford, Ohio, 50 cents each). These are simple, factual stories of fish and animals told so skillfully that they read like novels yet give lasting lessons in wildlife conservation and management.

A few months back, this column reported on the **Real Books** (Garden City Publishing Co., 575 Madison Ave., New York, New York, $1.25 each), a series for 10-to-14-year-olds. They average 175 pages and strive for "real-life" reports on their subjects. The series has sold so well that it will rate special display cases in most bookstores this Christmas. These new titles were added to the 20 issued last year: **Daniel Boone, Buffalo Bill, Bugs and Insects, Easy Music Making, Andrew Jackson, Pirates, American Tall Tales, The Wild West, Space Travel,** and **Farms.**

Most school-bus riders will get years of pleasure (and a lot of learning) out of the **Golden Treasury of Natural History** ($5), **The Golden Geography** ($3.95), and the revised edition of **The Boy Mechanic** ($2.95). The first two are among the scores of Golden Books issued for 8-to-16-year-olds. Both are oversize books with hundreds of realistic paintings in color and straightforward texts. **The Golden Geography** has a removable map of the world, 24x27½ inches, painted by Cornelius DeWitt. (It's so good that our copy of it hangs above the fireplace. Visiting grownups study it and talk about it as much as the youngsters.)

The Boy Mechanic is an old stand-by favorite issued by *Popular Mechanics* magazine and now brought completely up to date with 510 projects for the young craftsman, plus step-by-step illustrations. (All three books are published by Simon & Schuster, Rockefeller Center, New York, New York.)

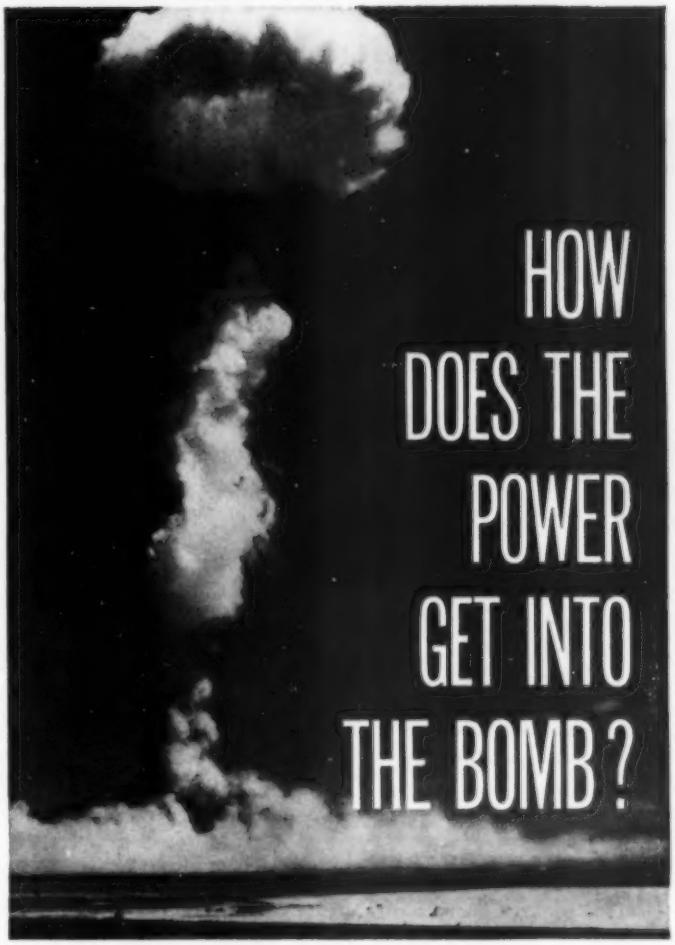
A so-called "adult" book that's mighty interesting to boys is **The Fireside Book of Flying Stories** (Simon & Schuster, $3.95). This is the finest collection yet of stories by and about the pioneers of aviation from the Zeppelins, Wright Brothers, and Baron von Richthofen through the Lindberghs and Eric Knight's "Flying Yorkshireman." There are 35 stories in all. They'll give Junior the thrill of the whole air saga, balloon, crate, B-29, and space ship.

Another whopping-good story collection for the 6-to-12-year-olds is **Better Homes & Gardens Second Story Book** (Meredith Publishing Co., Des Moines 3, Iowa, $2.95). It's due for publication just about the time this issue of *Successful Farming* reaches you. The first *Better Homes & Gardens Story Book* is for the 2-to-6-year-olds. The new book goes a-roving in the lands of King Arthur, the Pied Piper, Lobo, John Gilpin, and the Reformed Pirate. There are 19 famous stories and poems, excellent color paintings.

If you like whimsey books, such as *Winnie the Pooh* and *Alice in Wonderland*, see to it that some youngster in the family gets **New World for Nellie** by Rowland Emett (Harcourt, Brace, 383 Madison Ave., New York, New York, $2). Nellie is a rusty steam engine with a flower box under the cab window, shuttling between Cloud Cuckoo Valley and the sea. The book's 40 pages of drawings are hilariously intricate. The author is an illustrator for the British humor magazine, *Punch*. Nellie is not only a lady, but may very well become a child classic.

One book on publishers' winter lists will do much to give children the true meaning of Christmas.

The Birthday of Little Jesus by Sterling North (Grosset & Dunlap, 1107 Broadway, New York 10, New York, $2.50) is the reverent story of Christ's seventh birthday. Dr. Norman Vincent Peale says, "It is one of the most beautiful books I have ever read." **END**



Uranium is not enough. Preparing it for the A-bomb takes vast quantities of electricity. So does all the huge production for Defense. Also, homes, farms and businesses are using twice as much electricity as before World War II. Will the electric companies develop enough power? The answer is YES!

New plants double U. S. power. The map pinpoints new and enlarged power plants built by electric companies since World War II. They give America *twice* as much electricity as it had then.

* ***As much electric power as Detroit uses** will be needed by one A-bomb factory now nearing completion. Another new A-bomb project will use twice that much. For each, electric light and power companies are planning or building a giant power plant.*

Battlefield in the struggle against socialism. On the Niagara River, five local electric companies are ready to build a big new plant to develop additional electric power. But the job is being held up by those who want the government to build the plant. Similar delays hold up new power at Hell's Canyon, Idaho, Roanoke Rapids, N. C., and Kings River, Calif. America's electric companies can provide this power—without tax money and without the threat of socialism.

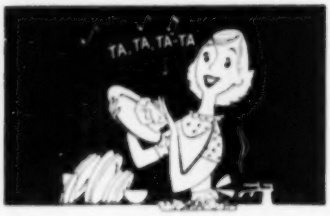
• • • •

These facts are heartening proof that the experience and sound business management of the country's hundreds of electric companies are ready and able to meet the nation's biggest power needs. America's ELECTRIC LIGHT AND POWER COMPANIES*.

"MEET CORLISS ARCHER"—ABC—Fridays—9:30 P.M., Eastern Time

**Names on request from this magazine*

What makes the difference?



A FRIGIDAIRE Electric Water Heater

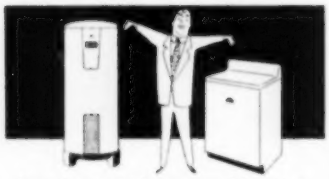
Gives you all the hot water you want—all the time

(for just a few pennies a day)

So much hot water! For every purpose—without worry or work. Set the automatic thermostat *once*—and sit back from then on, enjoying all the hot water you need.

So little cost! Exclusive Radiantube heating unit is completely immersed in water—heats only the water—and not the tank. Provides fast heating by direct contact—longer life. See Frigidaire Water Heaters at your Frigidaire Dealer's.

No fuel—no flues • No dirt—no soot
No wasted heat



Upright or table-top models—30 to 80 gal. sizes. Handsome table-top models have porcelain finished working surface that resists acid, grease, heat—wipes clean with a damp cloth. (Magnesium rod models for corrosive water areas.)

Frigidaire reserves the right to change specifications, or discontinue models, without notice.

Frigidaire families *live* better, because Frigidaire appliances *are* better

Here's what's new in furniture

Every home needs a rocking chair, and here's one that offers not only comfort and relaxation, but good style. The wing-back design and leg-type base distinguish this

Photograph: Suter, Hedrich-Blessing

"Rock-A-Feller" chair that goes well with either Modern or Traditional furnishings. The model shown is upholstered in a textured nubby fabric. It also is available in a variety of other fabrics including plastic, and in a wide selection of colors. Priced at $99.50.—*Lloyd Manufacturing Company, Menominee, Michigan.*

Here's a desk designed to fill the needs of every teen-ager who has a hobby. The dropped worktable area has a top inset with hardboard which can't be harmed by spilled paste, pencil marks, or paint

Grand Rapids Furniture News Bureau

spatter. It has large, roomy drawers to the left, a shallow drawer under the work space, and still allows plenty of room beneath for active teen-age legs and feet. Made of pine in a rich warm finish, the desk makes an attractive addition to a bedroom, den, or living room. The top piece is a separate unit and can be used for displaying hobbies or for a bookcase. Approximate price of the desk is $94.50.—*Pine Valley Reproductions, Division of Park Furniture Co., Rushville, Indiana.*

You can keep your extra "bedroom" in the closet with this new Foldaway Deluxe bed. It's an extra bed, it's a chaise longue, and it folds away in a minimum of space when not in use. One of the outstanding features of the new bed is the folding device which capsules it so it is approximately 10 inches shorter than the average foldaway bed. This makes it possible to store the bed in a bedroom closet

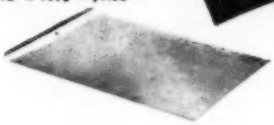
in the space underneath the average suit coat or jacket without its touching the clothing.

Another interesting feature is that it can be used as a chaise longue on the terrace, porch, or in a recreation room, as one end of the bed can be raised to make a back rest. Covered in an attractive alphabet-pattern fabric in black and white (a close-up of the design is shown in the above photograph) instead of regular mattress ticking, it eliminates the need for a special slipcover when used as a chaise longue. Priced at $39.95.—*The Englander Company, Merchandise Mart Plaza, Chicago, Illinois.*

More on page 86

in your oven

12" x 13½"—$1.00*



Wear-Ever cooky sheets

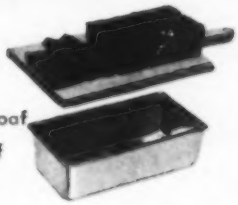
It's so easy to bake perfect cookies, macaroons, biscuits. Ideal for cooling candies, too. 3 sizes.

3 sizes. Alumilite finish.

How to add style to easy meals

Just bake your macaroni and cheese in this appetizing shape; or vegetable rings or gelatin dessert.

1¼ qts.—$1.10*



For meat loaf or loaf cakes

You'll use it for meat loaves, nut breads, loaf cakes, frozen desserts.

9" x 5" x 2¾"—80¢*

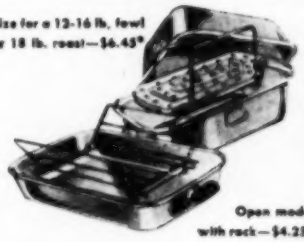
6-cup muffin pan—75¢*

Alumilite Mixing Bowl 3 and 6 qts. 3 qt. size—$1.25*

Does your family like muffins, cup cakes, tea biscuits?

You'll find that the steady, even heat in a Wear-Ever aluminum pan bakes them so light and tender. 6 and 12 cup sizes. And the mixing bowl, with convenient handle, is strong, light, easy to use.

Size for a 12-16 lb. fowl or 18 lb. roast—$6.45*



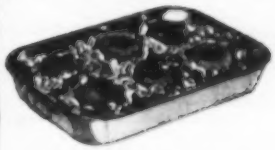
Open model with rack—$4.25*

2 ways to juicier roasts . . .

The famous Wear-Ever *covered* roaster, 3 sizes. And the de luxe open roaster, if you prefer to wrap roasts in Wear-Ever aluminum foil.

Hit Parade Check List

- ☐ Baked apples**, Dumplings
- ☐ Old-fashioned Biscuit Pot Pie
- ☐ Upside-down Cake
- ☐ Biscuits, Johnnie Cake, etc.



Here's the answer

in an unbreakable, light, strong pan you'll delight in for years to come. Many more uses. Comes in 3 sizes. 13" x 9" x 2¼"—$1.75*

**Bake and serve in Wear-Ever foil—no pan to wash

*Western prices slightly higher

See Wear-Ever on the ALCOA Program, "SEE IT NOW" over CBS-TV, every Sunday.

Friendly to Food

WEAR•EVER Aluminum

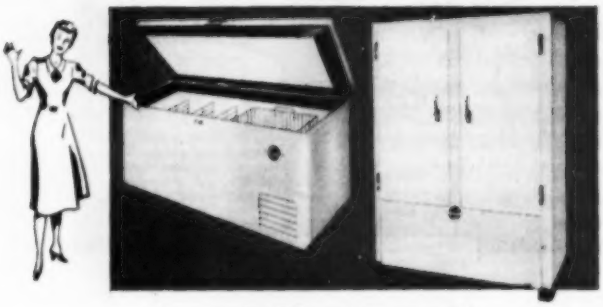
. . . and many, many more

Wear-Ever pans for better, easier cooking, baking, roasting and broiling—Wear-Ever foil, too—are in your neighborhood store.

THE ALUMINUM COOKING UTENSIL CO., DEPT. 5711 • NEW KENSINGTON, PA.

10 REASONS WHY

You Should Own



A De Laval SPEEDWAY FOOD FREEZER

1. IT SAVES YOU MONEY! — UP TO 25% OF YOUR FOOD BUDGET
2. IT SAVES YOU TIME! — KEEPS FOOD READY FOR IMMEDIATE USE
3. IT GIVES YOU MORE HEALTHFUL MEALS! — BALANCED DIET WITH MORE VITAMINS
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See your De Laval dealer today and start right now to enjoy better meals... at lower cost. Let your homemaker begin now to really enjoy life.

74 YEARS OF LEADERSHIP IN MAKING BETTER PRODUCTS FOR BETTER FARM INCOMES AND BETTER FARM LIVING

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Please send me printed matter on:
☐ F-100 Speedway Food Freezer
☐ F-240 Speedway Food Freezer
Name.....
Town.....R.F.D.....State.....

Furniture news

From page 84

It's an attractive armless chair in a modern tweed fabric—but, opened up, it becomes a bed for the extra guest. New is the innerspring unit in the base, in addition to the innerspring seat cushion,

bringing new comfort to this type of chair. The spring unit, which unfolds from the back of the chair, is slipcovered in the same fabric. Depending on style and fabric, these bed chairs are priced starting at $39.50.—*Simmons Company, 1 Park Ave., New York, New York.*

These upholstered metal stools are the answer to extra seating in the dinette, kitchen, or playroom. The tall stool is ideal for use in the kitchen as a work stool, or at a snack counter, as it can be

pushed under the counter and out of the way. The smaller one is dining height and can double for extra seating when guests arrive for a meal—ideal for children. The tubular-steel legs are finished in black and the seats are upholstered in plastic available in a wide variety of colors. These stools are not only attractive but inexpensive—the tall stool retails at about $3.50, the small one at about $3.—*T. Baumritter Co., Inc., 171 Madison Ave., New York, New York.*

So you're going to move . . .

Please be sure to send your change of address to *Successful Farming*, Des Moines 3, Iowa, five weeks before you move, if possible.

Give both your *old* and *new* addresses. A clipping of the stenciled label from a recent issue will help us to see that you don't miss any copies of your *Successful Farming* subscription.

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Get FREE help in planning your home decorating, building, and remodeling in any of these stores cooperating with the *Successful Farming* Home Planning Service:

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MIRACLES can happen in your kitchen with a COMPLETELY AUTOMATIC Caloric GAS RANGE

"Who'd think I was getting dinner?"

Miles from home, yet her Caloric oven will start automatically, cook dinner and shut itself off.

Stuff that dreams are made of

Go on dreaming about that morning cup of coffee. Caloric's Timed Outlet will have it perking when you wake.

"Who's chained to a stewing pot?"

Caloric's 4-hour Timer does your pot-watching for you, and buzzes when cooking is done.

No "Smoke gets in your eyes"

Caloric broils with the door closed! No smoke and greasy vapors pour out as in "open door" broiling.

Boon to tired husbands

Let him relax after a tough day. Caloric's famous Tri-Set Burners let you delay dinner until you're ready.

Yes, you're seeing double!

Two roomy ovens, each with its own heat control, let you bake and roast at the same time.

Suddenly, you're an expert baker

Wait'll you bake with Caloric's exact oven heat! What a difference from oven heat that goes on and off!

No more "Clean-up Blues"

Beautiful porcelain, inside and out, cleans in a jiffy. They're America's Easiest Ranges to Keep Clean.

Yes, Caloric is a miracle of performance, giving you undreamed of leisure *out of the kitchen*. It's a miracle of beauty, too, with its modern design, its gleaming porcelain and chrome. Why not see how easy meal-getting can be with an Ultramatic Caloric Gas Range? Remember, you save up to $100.00 compared with any equivalent range using other fuel. Remember, too, that more homes *cook with gas* than with all other fuels combined, by a wide margin! Caloric dealers are listed in your classified telephone book. See these *miracle* ranges soon.

Ultramatic Caloric

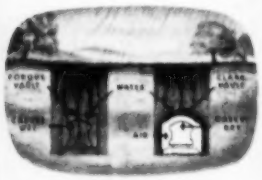
America's Easiest Ranges to Keep Clean

All models available for "Pyrofax" Bottled Gas or other LP-Gases

Caloric Stove Corp., Topton, Pa.

A WAVE OF PEACE comes to the sorrowing heart with the choice of a Clark Grave Vault. For it means that a loved one will have the world's most trusted protection against water from rain and melting snow.*

*THE CLARK GRAVE VAULT is made of enduring metal. It is *scientifically designed* to keep water in the ground from reaching the casket. A vault improperly engineered cannot do this. Neither can one which is porous... through which water can seep.



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CLARK

GRAVE VAULTS

The finest tribute • The most trusted protection

Do coarse feeds pay?

Rolled, flaked, crushed, or crimped dairy feeds cost from $2 to $6 per ton more than feeds ground to medium fineness. Are they worth it?

Ken Turk, head of the Cornell University Animal Husbandry Department, has a lot of letters from farmers who want to know if these more expensive forms of feed will pay their way. Little research has been done, although there is data from experiments which deal with the degree of fineness of feed grinding.

Several farmers who are intent on producing high records with their dairy cows seem to favor the crushed feeds. They feel that these coarse and crumbly feeds are more palatable and may contain higher-quality ingredients. They feel that fine grinding may lose some of the identity of a particular ingredient.

On the other hand, there are farmers who say they experience little difficulty in palatability of their ground concentrate mixtures, and they feel that the additional cost for flaked or coarse-textured feeds is a waste of money.

The university usually recommends that grain for dairy cattle be ground to only a medium degree of fineness. This means the feeds should be left gritty, rather than ground to a fine powder or flour. Exceptionally fine grinding does decrease palatability and feeding value, and it does cost more because of the increased power required. Flour-fine grinding usually takes about twice as much power as medium-fine grinding.

Digestibility is another factor which may be influenced by the type of feed used. To test the digestibility of coarse-textured feeds against that of medium-ground, the University of New Hampshire has conducted some experiments with dairy heifers.

The ration used in these experiments was composed of 700 pounds cracked corn, 600 pounds crimped oats, 30 pounds wheat bran, 200 pounds dried brewer's grains, 100 pounds pea-size soybean meal, 40 pounds pea-size linseed meal, 20 pounds iodized salt, 20 pounds bonemeal, and 20 pounds pulverized limestone supplemented with cobalt and manganese.

This mixture was prepared in the coarse-textured form. For the ground-feed test, several bags of the coarse feed were run through a hammer mill fitted with a 3/32-inch screen.

The preliminary report from these experiments states that liberal allowances of the concentrates were fed to the experimental animals so that any difference in digestibility could be measured. The preliminary results show that properly ground feeds are as easily or even more easily digested than coarse mixtures.

The scientists conducting these experiments say that "under normal feeding conditions, a considerable saving in concentrate costs can be made by changing from coarse-textured feeds to one of the better-grade, medium-ground mixtures produced by most feed manufacturers."

A manufacturer of dairy feeds ran similar tests. He found that test animals fed on his high-energy ground mixture for a full lactation period gave over 1,000 pounds more milk than the cows fed his coarse, bulky mixture.

So it appears that the farmer is more finicky about the physical nature of the feed than his cow is. It is relatively easy to imagine that she would like a coarse, flaky mixture better than a medium-ground one. More tests are being run; we may find that the bulkier, more-expensive processings are just added cost.

Homemade shop heater

This homemade 75,000-B.T.U. shop heater is so efficient that the stovepipe doesn't even get hot.

Walter Holmstrom, Holcomb, Kansas, designed and built this stove. It uses natural or bottled gas in fifteen 5,000-B.T.U. jets.

The jets are mounted in a horizontal 5-inch pipe with open ends so that draft-control flaps can be used. Above each jet is a 36-inch length of 2-inch pipe, which opens into a 3-inch flue pipe.

Each of the upright pipes has a 5/8-inch hole near the top, which slows down air draft and saves heat.

Photograph: Curtis

The world-famous FERGUSON SYSTEM with *Exclusive* SSC* SUCTION-SIDE CONTROL will be found only in the Far More Powerful FERGUSON "30"!

*If you want the most complete, the most perfect hydraulic *control* system ever built into a tractor, you'll find it *only* in the Ferguson "30".

There can be nothing else like it . . . *anywhere* . . . for *only Ferguson* can have a hydraulic system with the vitally important *Suction Side Control!*

You must see this control system *demonstrated* before you can truly believe the remarkable things it can do. For example . . .

Where ordinary hydraulic systems merely raise and lower implements, the Ferguson System, with *Suction Side Control,* raises, lowers and *controls* ground-engaging implements in direct relation to *draft!*

Ask your Ferguson Dealer for a "Showdown" demonstration right on your own farm. He will gladly prove to you the advantages of the famous Ferguson System with Suction Side Control!

This Booklet Tells the Story

Ask your Ferguson Dealer for a copy of "The Inside Story of the Ferguson System with Exclusive Suction Side Control." It tells you things about tractor control that you may never have known before. Harry Ferguson, Inc., Detroit 32, Michigan.

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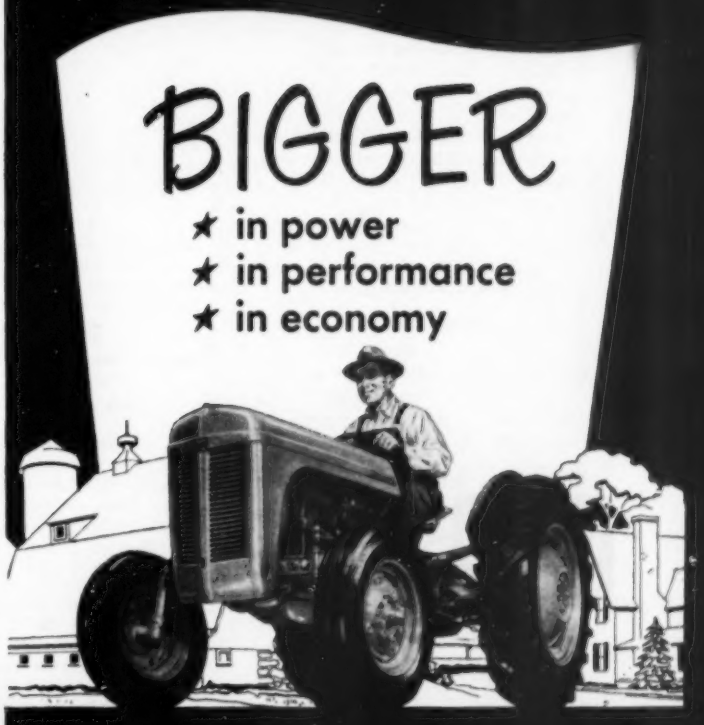

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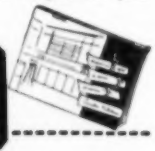
Here is what YOU asked for—a kitchen designed by women *for* women! The new Curtis wood kitchen cabinets are styled by women—tested by women—approved by thousands of women—to bring you all the wonderful kitchen features you've dreamed of!

Think of having kitchen cabinets in beautiful natural birch or finish-coated in white, ready for decoration in colors of your own choice! And think of having conveniences like a "Lazy Susan" revolving corner cabinet—special units for the farm kitchen where storage is so important.

Send for this New Kitchen Idea Book

Learn the famous 53 features of the new Curtis kitchens! Get ideas aplenty on kitchen arrangement and decoration from this new 24-page booklet. Mail the coupon for your copy.



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Please send me your new Curtis kitchen book. I enclose 10 cents.

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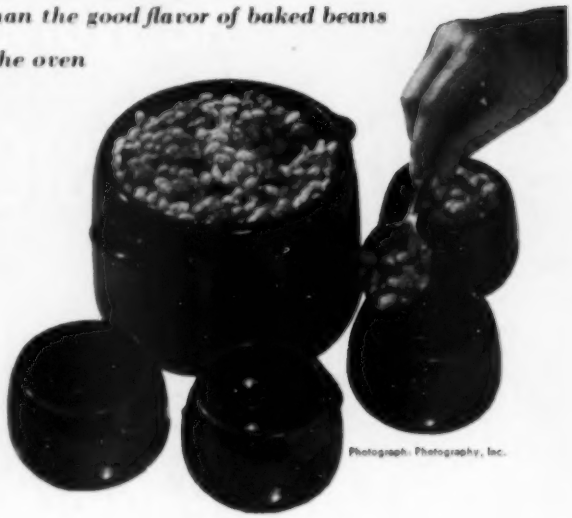
Nothing hits the spot more on a cold day than the good flavor of baked beans hot from the oven



Photograph: Photography, Inc.

Bean-pot dress-ups

"And this is good old Boston, the home of the bean and the cod . . ." The old quotation was true in its day. But there's no denying that the Boston bean has left home. It lives today in kitchens across the land, an all-American tradition.

Here are recipes for you cook-it-all-day enthusiasts, and others for the members of the can-opener school. Each enjoys the common denominator of top-notch flavor. Each deserves top billing at a meal.

Mother's Home-baked Beans

Serves 8 to 10

Soak ..... **2 cups navy beans** overnight in
1 quart water
Add ..... **¼ pound bacon,** unsliced
Cover and simmer over low heat for 1 hour.
Drain and reserve liquid.
Remove bacon and cut into cubes; return to above mixture.
Add ..... **½ teaspoon dry mustard**
½ cup dark molasses
1 teaspoon salt
½ cup chili sauce
1 tablespoon cider vinegar
¾ cup chopped onion
2 cups hot bean liquid
Pour bean mixture into casserole or bean pot; cover.
Bake at 300° (slow) for 6 hours.
Add more bean liquid, if necessary.

—*Mrs. Ben Smithe, Michigan*

Baked Beans With Dates

Serves 4 to 6

Combine **1-pound, 5-ounce can pork and beans with tomato sauce**
1 teaspoon brown sugar
1 teaspoon light molasses
7¼-ounce package (1 cup) dates, cut up
4 strips bacon, chopped
Place in 1-quart casserole or bean pot.
Peel ..... **1 small onion,** and bury it in beans
Cover and bake at 350° (moderate) for 30 minutes.
Remove cover; bake 30 minutes more.

—*Mrs. A. D. Trochinski, Minnesota*

Hawaiian Baked Beans

Serves 8

Soak ..... **2 cups navy beans** in water overnight
Add salt and cook until tender; drain
Add ..... **2 cups hot bean liquid**
1 cup crushed pineapple, undrained
¾ cup chopped onion
¼ cup brown sugar
Pour into a 2-quart casserole.
Top with **4 slices bacon**
Cover and bake at 350° (moderate) about 2 hours, adding water if necessary.

—*Mrs. Henry Boyd, Montana*

[*Turn to page 92*

"I start my garden in the utility room—

"Do you recognize what makes the big difference between this utility room and an ordinary one?

"An idea.

"You see, my husband and our Crane Dealer had selected the finest equipment . . . a Crane-Line Pump, Crane-Line Water Heater and Softener, Crane Boiler, Crane Duraclay Laundrette, and an Automatic Washer and Dryer.

"Then our Dealer brought out his Crane *Sketchbook* to show us how conveniently and smartly our equipment could be arranged to save steps, time and space. And there's where I got my idea.

"In the Sketchbook there's a utility room that doubles as a greenhouse. Of course it wasn't at all like my room . . . but it gave me the basic *idea*. So now I've got an efficient Crane utility room plus the perfect place to start my garden or keep my favorite plants!"

If you're planning a bathroom, kitchen or utility room, call on your Crane Dealer for help. His experience can work wonders for you. Or write: Crane Co., 836 South Michigan Avenue, Chicago 5, Illinois.

Crane supplies the complete water system—from pump to faucet.

The smart, acid resisting, easy to clean Crane Duraclay Laundrette also doubles as a plant bench. A hinged table top can be built to swing down over the tubs and provide a large working surface for planting, thinning, or watering shoots in their flats.

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Compare it for
EASE OF USE!

EASIEST Portability!

With beater unit that glides off stand for use at table, range, *anywhere!* No triggers, catches, latches. Compare!

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With exclusive MIXGUIDE that puts 10 tested speeds under your thumb, magnified for flash reading. Hand that holds mixer sets speed. Frees your other hand to hold a pan, add ingredients. Full power at all speeds. Compare!

EASIEST Bowl Control!

Shuts ever turning bowl while beaters revolve—guarantees thorough mixing. Easiest of all food mixers to use regardless of price. COMPARE and you'll choose Hamilton Beach! *Hamilton Beach Co., Div. of Scovill Mfg. Co., Racine, Wis.*

*Prices subject to change without notice.

NEW
HAMILTON BEACH
Mixette®

BEAT, MIX, MASH, WHIP, FOLD in any bowl or pan.

FULL-POWER MOTOR—even mixes heavy molasses-cookie batter.

$19.75*
IN GIFT BOX
Includes bracket and screws for wall mounting.

THUMB ADJUSTS SPEED—other hand holds pan or adds ingredients.

HANGS ON WALL or fits in drawer—bracket furnished.

BEATERS SNAP in for use—snap out for cleaning.

Made by the makers of top-value Hamilton Beach Vacuum Cleaners.

Bean-pot dress-ups

From page 90

Mexican Baked Beans

Serves 6 to 8

Soak . . . . . **2 cups navy beans** in
6 cups cold water overnight

Cook beans in water in which they were soaked until tender (about 45 minutes).

Combine **1 bunch celery,** diced
No. 2 can (2½ cups) canned tomatoes
⅓ cup chopped onion
½ cup diced stuffed olives
½ cup olive oil
¼ cup chopped sweet pickles
1½ teaspoons salt
1 chili pepper
pinch cayenne

Cook for 30 minutes.

Remove pepper.

Mix together cooked beans and sauce.

Pour into 2-quart casserole.

Cover and bake at 300° (slow) for 4 hours.

Sprinkle with
½ cup grated American cheese last half hour of baking

Remove cover to allow cheese to melt.

—*Mrs. Maud Bell, Nebraska*

Hearty Bean Dish

Serves 6 to 8

Fry . . . . . **¼ cup chopped onion** in
2 tablespoons butter until tender

Add . . . . . **1 pound ground beef**

Brown.

Add . . . . . **1 teaspoon salt**
⅛ teaspoon pepper
½ cup catsup
1-pound can pork and beans

Cover and simmer for 1 hour.

—*Mrs. Edwin Johnson, Iowa*

Quick-and-easy Baked Beans

Serves 4

Combine **1 16- to 18-ounce can pork and beans**
2 tablespoons brown sugar
¼ teaspoon dry mustard
¼ cup catsup
2 slices bacon, cut in 1-inch pieces

Bake covered in greased casserole at 350° (moderate) for 20 minutes.

Uncover and continue baking for 20 minutes. **END**

Send us your recipes

Do you have a recipe to submit for testing in our kitchen? *Successful Farming* pays $5 for each recipe published on the Successful Recipes pages. Please write on only one side of the paper. We cannot return unused recipes.—Editors

When you stuff a turkey

What you don't know won't hurt you—or will it? There are three kinds of harmful bacteria that are often found in stuffings. You'll never see them, and perhaps you'll never know they are there. But recent tests have shown that many cases of food poisoning at turkey time are traced to stuffing that hasn't been prepared properly. So let's be on guard!

What to remember about stuffing:

1. Stuffing is safe for eating only when it has been heated through to 165 degrees. This temperature completely destroys the harmful bacteria that may be in the stuffing.

2. To make sure the stuffing inside the turkey reaches 165 degrees, the temperature of the bird (measured by a thermometer inserted in the thigh of the turkey) should be at 200 degrees.

3. The safest way to handle stuffing is to prepare the stuffing, fill the abdominal cavity, and roast the bird immediately.

4. If the stuffed bird is to be refrigerated a few hours before roasting, the temperature of the refrigerator should be at or below 38 degrees for quick chilling.

5. Roasted stuffed turkey should not be allowed to stand for more than a total of 4 hours either before or after cooking.

6. Cooked bread stuffing should be removed from the carcass, placed in a covered container, and refrigerated as soon as possible after serving. It's wise to remove the meat from the carcass and refrigerate it immediately in a covered container. Do not keep cooked stuffing or poultry more than 5 days before using it.

7. *Freezing of stuffed, uncooked turkeys and stuffed, cooked turkeys is not recommended.* By all means freeze your turkey, if you wish, but stuff it after it has thawed and is ready for the oven.

8. The ideal cooking temperature for your turkey is 300 degrees.

Portrait of an old man

He leans above the garden fence
And whittles musingly;
His eyes are warm with confidence
And deep serenity.

His spirit seems untouched by fears,
Though time has grooved his hands
Like ancient parchment, with long years
Of serving toil's demands.

And now, though for no certain end,
He whittles—meditating—
Until one day will come the Friend
For whom he has been waiting.

—*Blanche Stewart*

DON'T TRIFLE WITH "FADDY" FOODS—KIDS NEED

HONEST FOOD

AND HERE IT IS!

NABISCO SHREDDED WHEAT with MILK...America's great body-building breakfast! 100% whole wheat—bran and wheat germ included. Delicious...hearty...nutritious! The original Niagara Falls product.

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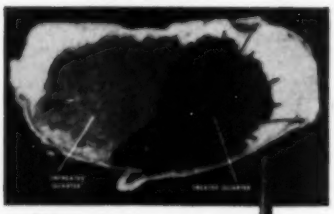
Don't just say "Shredded Wheat"...say "NABISCO SHREDDED WHEAT"

TREAT MASTITIS WITH PENDISTRIN SQUIBB



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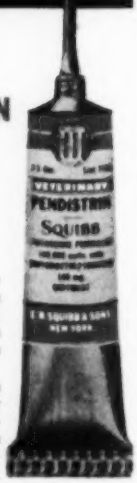
Prolonged EFFECTIVE ACTION!



The *special* ointment base of Pendistrin Squibb melts quickly...penetrates glandular tissue...carries high-potency antibiotics throughout quarter.

It releases the antibiotics slowly, over a 48-hour period...organisms are attacked at moment in life cycle when most susceptible to antibiotic action.

Each "instant-use" tube of Pendistrin contains 100,000 units of penicillin plus 100 mg. of dihydrostreptomycin. Pendistrin is stable, non-irritating. Get it from your druggist! Write for free literature: E. R. Squibb & Sons, Veterinary and Animal Feeding Products Division, Dept. SF-11, 745 Fifth Ave., New York, N.Y.

Get handy "barn box" from your druggist!

Be prepared to treat mastitis *at the first sign*. Keep Pendistrin on your barn shelf. Requires no refrigeration. Get barn box of 12 tubes from your druggist!

For the most common kind of MASTITIS

SQUIBB PENICILLIN OINTMENT

For mastitis caused by *Streptococcus agalactiae*—the most common kind—use Squibb "Instant-Use" Penicillin Ointment. Get it from your druggist...today.

For accurate diagnosis of mastitis, consult your veterinarian.

PENDISTRIN (Reg. U.S. Pat. Off.) is a trade-mark of E. R. Squibb & Sons

SQUIBB — A NAME YOU CAN TRUST

There's profit in a

Small farm flock

By Earl Beery

You don't need a large flock to make money selling eggs. Not if you're set up to produce eggs for a little less than the next fellow and then sell them for a premium price.

Foster McDonald, Mount Vernon, Illinois, has been making good profits from a 300-hen flock for years and he has records to prove it. Take last year for instance. His farm-account records showed that his average return per hen (meat and eggs) over feed costs was $3.95. Compare this with an average of 90 cents a bird over feed costs for other flocks of this size recorded during the same period in the Illinois farm business records.

And McDonald isn't spending much time with his chickens. He spends about 10 minutes a day caring for the birds from the day they are bought until they are sold. During the laying season, his biggest job is picking up the eggs.

Making money every year from a farm flock hinges on three points in McDonald's program: (1) keeping costs at a minimum; (2) feeding for 85-to-87-percent egg production; and (3) taking advantage of market price peaks.

The day of the month he buys chicks is an example of how he cuts costs. Year in and year out he starts them on March 20. Why? The electric meter is read on the twentieth of the month. The first 200 hours cost 7½ cents an hour. Then it drops to 1 cent an hour. If he got his chicks the first of the month, brooding costs would go higher.

Another trick he uses to keep costs down is to make maximum use of housing. His poultry houses serve both as a brooder house and laying house. All old hens are sold out on the tenth of March. This gives him 10 days to convert the laying house to a brooder house.

Selling the old hens in March also has another advantage. He gets about 10 cents a pound more than a month later. Three hundred hens, averaging 6½ to 7 pounds apiece, at a 10-cents-a-pound premium, means about $200 more for just selling them a month early.

McDonald starts in March with 700 White Rocks. The roosters are culled out and sold at 12 weeks of age. A pullet culling later in the summer brings the flock down to 300 hens. The pullets are confined on about September 1. In 3 weeks the pullets are hitting a 75-percent production clip and at 6 weeks they are up

[*Turn to page 96*

Photographs: Author

Deep litter of straw and paper sacks keeps house warm and dry—means cleaner eggs. House is cleaned once a year

Separate hoppers are used to feed, free-choice, whole corn, oats plus 30-percent protein balancer. Wheat is fed in litter in evening. Lights stay on at all times

Electric flytrap in laying house helps control worms by keeping down fly population

Invents Tree Puller

to save time and money in clearing land

1 **Mr. W. E. (Bill) Stephens, co-inventor of the novel tree puller** shown, backs into tree until fork points bite into trunk — he then pulls the hydraulic lift lever and . . .

2 **Up comes tree and roots too,** so that ground is ready for plowing. Co-inventor A. A. (Cotton) Zogg shows Texaco Driver T. I. Trahan length of root pulled from ground.

A tree-puller attachment for a tractor that yanks out young trees up to six inches in diameter at the rate of one a minute is the successful time- and labor-saving invention of A. A. Zogg and W. E. Stephens of Sheldon, Texas.

The big advantage of the tree puller over a bulldozer, according to the inventors, is that the tree puller brings up the roots too, so the ground is ready for immediate plowing. Bulldozers often leave the roots in the ground, it was said.

"A push and a lift does the trick," says Bill Stephens. "It's easy to keep our land free from young growth with our tree puller."

Like keen farmers and ranchers the country over, both Mr. Zogg and Mr. Stephens have found that *it pays to farm with Texaco Products.*

Because it exceeds Heavy Duty requirements, Havoline Motor Oil is ideal for trucks, Diesel or gasoline tractors and equipment using L-P gas as fuel. Naturally, there's nothing better for cars. Wear is practically eliminated. This has been proved by farmers like Fred Buscher (right) of Ritzville, Wash., who farms 780 acres. Texaco Man Paul Meyer pays a friendly service call.

There's no substitute for a lubricant that will stick to bearings — won't jar off, dry out or cake up. That's why so many farmers, like Martin Ball (left) near Battle Creek, Michigan, use Marfak — Texaco's famous lubricant for tractor, car, truck and farm machinery. Texaco Man Charles E. Gripe (right) has a word with Mr. Ball's daughter.

Friendly service, timely delivery and Fire-Chief, the gasoline with superior *"Fire-Power"* for low-cost operation, make a combination that farmers appreciate. Only Texaco Men can provide that combination in all 48 States. Texaco Man Clyde Mumper (left), of the Garber Oil Company, Mt. Joy, Penn., has just made a delivery to Mr. Maurice Nissley, Manheim, Penn.

THE TEXAS COMPANY

IT PAYS TO FARM WITH TEXACO PRODUCTS

DIVISION OFFICES: Atlanta 1, Ga.; Boston 17, Mass.; Buffalo 3, N. Y.; Butte, Mont.; Chicago 4, Ill.; Dallas 2, Tex.; Denver 5, Colo.; Houston 1, Tex.; Indianapolis 1, Ind.; Los Angeles 15, Calif.; Minneapolis 5, Minn.; New Orleans 6, La.; New York 17, N. Y.; Norfolk 1, Va.; Seattle 11, Wash.

Texaco Petroleum Products are Manufactured and Distributed in Canada by McColl-Frontenac Oil Company Limited.

"MY NEW HOLLAND "77"

Put up 10,000 bales of hay without one penny for repairs!"

says Dr. John R. Walker, Summit View Farm, Atlanta, Ga.

"Hay and permanent pastures are essential for the production of my pure-bred Angus cattle. "My New Holland "77" has put up the maximum amount of hay in minimum time with less labor, and no repairs."

WITH A "77", one man on a tractor can bale up to 10 tons of hay an hour! You can bale your hay the day it reaches the right stage of curing . . . before rain, or too much sun cut down feed value. New Holland's baling action is gentle, too. Protein-rich leaves and blossoms are packaged right into the bale, not shaken out into the field.

You can count on highest capacity from your "77" all season long. It's rugged, built entirely of steel and designed with fewer parts. That's why it's the choice of custom balers, men who must have speed and dependability.

See the New Holland "77" at your dealer's. Decide whether it wouldn't make good sense to own one on your farm. The New Holland Machine Co., a subsidiary of The Sperry Corporation.

Don't take a chance! Always use New Holland Certified Twine. It bears the U. S. Testing Co.'s Seal of Approval for meeting its rigid standards of quality and strength.

PERFORMANCE EXTRAS

Full-Floating Pick-Up

Spring fingers on the floating pick-up follow ground contours closely, pick up cleanly. Adjustable guide wheel allows fingers to sweep within one inch of the ground—can be raised when baling crops with high stubble.

Anti-Clog Knotters

Knotters on the "77" are inverted so that dust and chaff can't collect on working surfaces. They clean themselves as they work, tying two knots in only seconds while the bale is under compression.

Micro-Slicing Adjustment

The stationary knife is set by micrometer-type screw adjustments. Once set, it stays in place . . . there's no fussing with shims. Blade can be removed for sharpening without disturbing the adjustment.

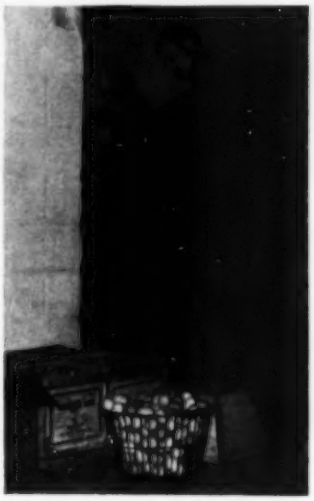
NEW HOLLAND

"First in Grassland Farming"

New Holland, Pa. • Minneapolis • Des Moines • Kansas City • Brantford, Ontario

Small farm flock

From page 94



Accurate records, covering 21 years, tell him his hens make money. In 1951, they returned $3.95 each over feed costs

Kitchen sink is used to make homemade automatic waterer. Float valve maintains water level. Sink is drained for cleaning

to 85-to-87-percent production—a figure which they hold until marketed in March.

McDonald uses forced production to keep his hens producing at a high rate. Lights are left on all night to encourage hens to eat more feed. The birds are fed a 30-percent poultry balancer plus whole shelled corn and oats, all fed free-choice in separate feeders. He also sprinkles a little wheat in the litter each evening. Hens will come off the roost to get this wheat. McDonald likes for the hens to go to roost with their crops full. Sand and fine gravel, taken from a creek bed, give hens the needed grinding grit to take care of whole grain.

Eggs are sold on a graded basis. Over a 6-month period, he gets about 5 cents a dozen over current market price. The eggs are picked up in the evening and left to cool in wire baskets overnight before packing. To get a stronger shell, he feeds an extra amount of oystershell at

one end of the feeder in addition to the regular oystershell feeders. He is never troubled with dirty eggs and gives a lot of the credit to a deep litter.

He starts building the deep litter when the chicks go into the brooder house. A layer of paper sacks is first placed on the floor. Then a layer of straw is sprinkled over the paper sacks. He keeps adding paper sacks and straw during the summer, and by September 1 he has an absorbent litter 8 to 10 inches deep. The paper sacks are torn to shreds by scratching. After the pullets are confined, he feeds a little leafy clover hay to give the hens something to pick on and to add to the built-up litter. Open front windows and dehydrated lime also help keep down the moisture. The house is cleaned out once a year.

An all-pullet flock keeps disease to a minimum. The only vaccination used is for fowl pox at 12 weeks of age. He whips the worm problem by keeping down the fly population. An electric flytrap is kept hanging in the houses during fly season.

Homemade automatic waterers make watering chore simple. An old kitchen sink is used for the waterer. A float valve maintains a constant water level. A drain at the bottom of the sink allows him to drain and clean the sink once a day. The water drains into an old wooden barrel buried in the ground and filled with coarse rocks. A heating cable keeps the waterer from freezing in the winter. Automatic fountains are used outside while pullets are on range.

Over the years, McDonald's hens have topped his beef herd and hogs as top moneymakers per dollar invested. For him, it's not flock size that counts, but rather how efficiently hens turn out eggs. Twenty-one years of records have told him a small flock can be a moneymaker, too. **END**

Stress factors affect ration

Veterinarians are studying "stress factors" in animal nutrition, and their relationship to ration requirements in feeding. Stress factors are such things as heat, cold, fatigue, infections, vitamin deficiencies, and overfeeding. The veterinarians feel that nutritional requirements may change as the animal passes from one stress condition to another.

They have found that animals require more thiamin, salt, and iron during hot weather. And parasites may cause nutritional deficiencies, which will require a fortified feed in order to keep the animal supplied with what it needs.

Vitamin C plays a large part in helping an animal resist the effects of "stress factors." It is necessary for the synthesis of adrenal-cortical hormones which the animal uses to withstand these effects.

Don't put in a drop of anti-freeze

. . . until you've cleaned out rust with

DU PONT *Cooling System* CLEANSER

Now, before freezing weather sets in . . . before you put in anti-freeze . . . it's time to clean out your cooling system. **Du Pont Cleanser** makes the job safe, simple and thorough. You can even let the cleanser work while you're driving. And neutralizer is included in each can for a complete job. Du Pont Cleanser removes rust *—without reverse flushing*, without fuss. Get a can at your service station or auto supply store today.

Insure against leaks that waste anti-freeze with

DU PONT COOLING SYSTEM SEALER

Don't let radiator leaks rob you of valuable anti-freeze. Seal it in with **Du Pont Cooling System Sealer.** Even when the cooling system is apparently watertight, many permanent anti-freezes will "creep" and be lost by seepage through tiny pinholes. Such leaks are stopped immediately by Du Pont Sealer. It's simple to use, flows with the water in your system, and can't clog, or harm hose or metal parts.

DU PONT

REG. U. S. PAT. OFF.

BETTER THINGS FOR BETTER LIVING

. . . THROUGH CHEMISTRY

Shreds and pulverizes thoroughly . . . spreads controlled amounts evenly

There are three NEW IDEA Manure Spreader models ideal for quick, easy, frequent spreading. They are on-and-off your tractor in seconds. You can regulate them to spread the exact amount required. They shred and pulverize thoroughly; spread evenly whether you apply manure thick or thin.

The NEW IDEA Spreader bed is made of select pine treated to resist acids, and securely riveted to rigid steel framing. Flared sideboards give extra big load capacity. Wide upper cylinder moves top of load first, giving lower cylinder proper clearance to move bottom of load . . . a feature which greatly reduces draft and power requirements. Centrally loaded, self-aligning bearings keep working parts running true. You'll find that NEW IDEA Spreaders are built to take the sudden shocks of heavy loads from hydraulic loaders.

Your community NEW IDEA dealer is the man to see for additional details. He can quickly show you why the NEW IDEA line of Spreaders is in a class by itself.

The value of manure is roughly $6.50 to $9.00 per ton. A herd of 20 cows produces around $1600 worth of manure a year . . . or $80.00 worth per cow. This profit is yours if you handle and spread manure properly. Write for free booklet, "Barnyard Manure."

Our Nation's Founding Fathers Had A Good Idea — Support It With Your Vote Nov. 4th.

NEW IDEA SUBSIDIARY AVCO MANUFACTURING CORPORATION

FARM EQUIPMENT CO.

Dept. 608, Coldwater, Ohio

Mail coupon today for free folders!

Send free folders as checked:

- ☐ Manure Spreaders
- ☐ Lime Spreaders
- ☐ NEW IDEA HORN Loaders
- ☐ Transplanters
- ☐ All Steel Wagons
- ☐ Steel Wagon Boxes
- ☐ Tractor Mowers
- ☐ 4 Bar Rakes and Tedders
- ☐ Barnyard Manure Booklet
- ☐ Hay Loaders
- ☐ All-Purpose Elevators
- ☐ Corn Pickers
- ☐ Corn Shellers

Name _____

Address _____

Automatic hog waterer saves labor

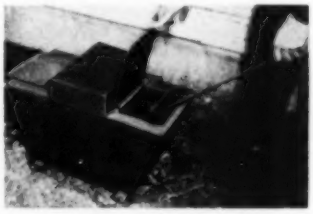
Henry and Dan Smith, father-son farmers of Madison County, Ohio, have cut their hog-watering time to practically nothing with this homemade hog waterer.

These waterers are completely automatic and require only an occasional few minutes for cleaning out the bowls.

Welded together from 14-gauge steel, the waterers are practically damageproof. Lugs on the waterer allow it to be bolted to a platform so that it is secured in place.

When welding the waterer together in his farm shop, Henry provided an inch of space in the side walls for insulation. In addition, an electric heating unit was provided. For winter months, these waterers are moved to the barn where 3 cents' worth of electricity each day keeps the water from freezing.

Henry made the outside measurements of the waterer 8x12 inches, and the sloping ends make the bottom 8 inches square.



Homemade portable, automatic swine fountain uses built-in electric heater to prevent freezing. Covers keep the water clean

Installation of the waterer is made by setting it on top of 3-inch upended tile through which the water pipe and electric lines are brought. The float and valve are covered and out of reach of the hogs.

Hogs can drink from either end of the fountain. They soon learn to lift the steel lids, which keep out dust and dirt when the hogs are not drinking.—*D. E. G., Ohio.*

Pasturing wheat lowers yield

Tests conducted by University of Nebraska agronomists indicate that pasturing of wheat lowers yields from 3.1 to 10.4 bushels per acre, under most conditions. The tests were made over a 5-year period on soil of medium fertility.

Fall pasturing November 20 to November 30 dropped the wheat yield 3.1 bushels per acre. Pasturing during both fall and late spring resulted in a 10.4-bushels-per-acre decrease.

How to assure Prosperity and Security for your community

When a majority of the farmers in a community are increasing their cash incomes and, at the same time, improving their farms . . . the entire community benefits.

By following Practical Land Use plans, thousands of farmers are getting bigger yields, reducing their costs, and making better farms for their families. As more and more farmers in each community realize the advantages of Practical Land Use, the entire area becomes a better one in which to live.

Farmers spread their prosperity and security. Thus, Practical Land Use not only benefits farmers and farm families . . . it is good for everyone with whom these farmers do business, good for everyone with whom the farmer or his family comes in contact or needs.

Farmers and their Families

Practical Land Use encourages the interest and participation of everyone. All members of the family, young and old, take active interest and participate in both short and long term programs.

The results are not alone more dollars, but the things that those additional dollars mean for each member of the family . . . the dreams realized . . . the plans fulfilled. The results of Practical Land Use become the modernization of the house, new furnishings or appliances. They are turned into plans for education or debt retirement. New tools and equipment for faster, easier, more efficient farming become realities. Vacations and savings for "a rainy day" are easier to achieve.

Yes, Practical Land Use, and the additional dollars it assures, benefits the entire family. It makes it possible to add the necessities and comforts, the time and labor-saving devices, sooner and more easily.

Merchants and Craftsmen

can offer a wider and better range of products . . . can attract more competent workmen, when the total income of the area is increased. Thus, they can keep the business "at home" where it benefits those closest to home. And when more of the products and services which a farmer or his wife needs can be obtained close at hand it saves time and money for them—is far more convenient.

Teachers and Public Officials

can serve better, too, when more farmers in the area follow Practical Land Use. Because there is more prosperity, it is no longer necessary for civil authorities and educators to go to larger cities to obtain adequate salaries. Schools and public buildings can be built or more easily modernized, when the community has the additional support made possible by Practical Land Use.

Doctors and Ministers

can also perform their tasks better when there are more Practical Land Use farmers in the area. Hospitals and churches can be better equipped. Facilities for taking care of the sick and the needy can be made more adequate. Better trained, more experienced men can be attracted to the community. Those who have been serving well will be more interested in remaining in a community surrounded by Practical Land Use farmers.

EVERYONE BENEFITS FROM PRACTICAL LAND USE

Yes, it's true, when Practical Land Use helps farmers increase their incomes substantially . . . helps them double or triple their crop yields . . . reduce their feed costs . . . and improve their farms at the same time, everyone in the community benefits. And more important, the advantages to the community are not temporary, they are permanent, will continue to improve for years to come. That is why community leaders are all interested in Practical Land Use . . . leading farmers, merchants, bankers, doctors, ministers, and teachers all realize that the entire community can be better off when a majority of the farmers in the area are Practical Land Use farmers.

Your Red Brand Fence Dealer

will be glad to help you get the facts about Practical Land Use. Ask him to show you a copy of the new, colorfully illustrated book "WILLING ACRES". It contains the essential facts about Practical Land Use—illustrates different plans for an actual farm, indicates how much more can be produced on each acre and how the entire farm can be improved at the same time. It also explains what would happen if you said, "I'd like a Practical Land Use plan for my farm."

If your dealer doesn't have a supply of these interesting books, write us.

Look for the fence with the Red top-wire. See your Red Brand dealer for that long-lasting Galvannealed RED BRAND fence and those easy-to-set RED TOP steel posts.

KEYSTONE STEEL & WIRE COMPANY Peoria 7, Illinois

Also makers of Keystone poultry netting, Non-Climbable fence, Nails, Bale ties, Gates, and Keymesh reinforcing for stucco and cement.

It tastes better... cleans teeth and breath better... reduces decay better...

It's the New Ipana®!

Two new scientific cleansing, purifying agents!

It's true! New Ipana gives you *all* the ingredients needed for effective mouth hygiene in a wonderfully refreshing, non-staining tooth paste.

Ipana's *two* new cleansing agents actually clean *better* than any single tooth paste ingredient known. What's more, they penetrate where even water can't reach . . . to help keep your *whole mouth* cleaner, sweeter, healthier.

You'll notice the difference

New Ipana gives you all its wonderful benefits in a tooth paste with a sparkling new flavor . . . with new twice-as-rich foam.

You'll notice the difference the very first time *you use it*.

You'll be delighted with Ipana's new, more refreshing flavor . . . and delighted at how the youngsters *like* to brush their teeth with it. New Ipana was voted far pleasanter to use by hundreds of men, women and children.

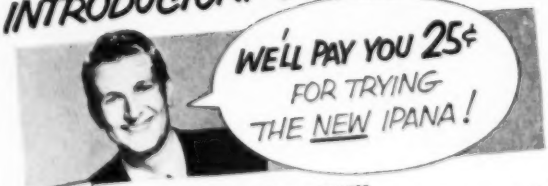
New pleasanter way to combat bad breath and decay!

Yes, you can freshen breath and reduce tooth decay *more effectively* with new Ipana. It not only stops mouth odor instantly, but stops it *longer*. And it gives you *better protection* from tooth decay.

Take care of your gums! It's a fact that brushing teeth from gum margins toward biting edges with new Ipana helps remove irritants that can lead to gum troubles. For teeth, breath, gums—use the new Ipana Tooth Paste.

Product of Bristol-Myers

INTRODUCTORY OFFER!



HERE'S ALL YOU DO!

POPULAR TV RADIO STAR BUD COLLYER

1. Buy a large or economy-size tube of Ipana at any drug counter. **2.** Mail the empty carton with your name and address to **Ipana, Dept. P-112, Box 56, New York 46, N. Y.**

Twenty-five cents in cash will be promptly mailed to you. Offer expires Dec. 31, 1952. Limited to one per family. Take advantage of this money-saving offer now—get new Ipana today. Offer good in continental limits of U. S. A. only.

Are you an eager eater?

If you're more than 5 pounds overweight and find it hard to reduce, if you often reach for good things to eat when you're down in the dumps, then this is for you

By Constance Foster

Ann had been invited to spend the summer on the farm with her cousin, Felice. Both girls were a little on the chubby side and all spring they had watched the calories closely, whittling down their curves.

But the usually lively resort town within a few miles of the farm turned out to be a frost. Many of the boys were in service and others were going to summer school. Life was decidedly on the dull side for the two girls.

One day Ann made a horrifying discovery. "I can't fasten this skirt!" she groaned.

"I bulge in my new shorts," Felice admitted reluctantly. "Funny, they fitted when I bought them in June."

The truth was that both girls had been nibbling between meals and raiding the refrigerator at bedtime out of sheer boredom and discouragement at the flop of their summer's hopes. They had been blithely blaming their keen appetites on the country air and their daily stint in the garden. But now they had a good honest look at themselves in the mirror and had to admit that their own restlessness and disappointments were driving them to eat too much.

Food is a wonderful pacifier and everyone knows who goes for pacifiers—babies! It's natural for a toothless little creature, who can't do much of anything else, to put sucking and swallowing at the head of the "what gives me pleasure" list. But after you've cut your eyeteeth it's immature to live to eat, instead of eating to live.

It isn't hard to understand why food helps wounded feelings or loneliness. There's no doubt that a full tummy gives you a comfortable sensation while an empty one makes you feel irritable.

All this makes it as plain as the spare tire around a waistline that food means more than proteins and carbohydrates to us. It means emotional satisfaction, too. When a girl doesn't get enough satisfaction from her everyday interests and activities, she is likely to dip into the candy box or the cooky jar to try to make up for the lack. In short, when life isn't *sweet* enough, she reaches for a *sweet!*

The trouble with this solution for her problem is that it doesn't work. It boomerangs. She can kid herself but not the calories. They keep piling up and making her *less* attractive, rather than more so.

Perhaps at first, for instance, she is merely shy. To comfort herself for her lack of ease when she is with other people, she gorges on cream puffs and homemade fudge. Soon she is pudgy and dumpy. A new sorrow has been added to her list. Now she is both shy *and* fat. Instead of doing something to overcome the original difficulty, she has added another.

The eager eater often alibis by wailing: "But I get so shaky if I don't eat often. I'm terribly dependent on my food." The psychiatrist says it isn't always the body's need for food which causes these "empty" or "all-gone" feelings. Often it is a hunger for more love or affection, more "mattering" to others.

Similarly, when a person says, "I'm not hungry—nothing tastes good to me," it sometimes means she is discouraged and has really lost her appetite for having fun or her zest for life. You know yourself how an examination looming on the horizon can make breakfast taste like sawdust. On the other hand, if you flunk that exam you may rush to the corner drugstore for

[*Turn to page 102*

Is your child's future worth a Wurlitzer Piano?

• All his life he'll be thankful for music

Of course, your dreams for your boy include leadership, ability, success. And of this you may be sure: No matter where life spots him, he will always be grateful for music . . . for the training he receives at the Wurlitzer Piano.

He'll have the fun of music in his hands and in his heart all through the years. Yes, and there are *practical* benefits, too. The boy who grows up with a Wurlitzer Piano also grows in perseverance, concentration, coordination. He acquires self-discipline, self-confidence, poise—the ability to make other people happy—qualities that do so much to assure youthful popularity and future success.

A Wurlitzer can add to future poise, popularity, success

Wurlitzer Piano, Model 630. Available in mahogany, blond mahogany and walnut.

And Wurlitzer Pianos are favorably priced

Wurlitzer Pianos are famous for fine construction, splendid tone and stamina. Famous for value, too. And today, these values are greater than ever. This is made possible by a very simple fact: More people buy Wurlitzer Pianos than those of any other name.

Wurlitzer is famous not only for fine pianos but for the finest in electronic organs, too. Among these is a remarkable new instrument for the home. Easy to install. Easy to play.

WURLITZER

World's Largest Builder of Pianos and Organs Under One Name

THE RUDOLPH WURLITZER COMPANY, DE KALB, ILLINOIS; EXECUTIVE OFFICES, CHICAGO, ILLINOIS

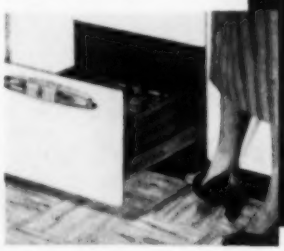
Can you lift off your OVEN DOOR?

You can with a Tappan. Now you can clean every corner of that big chrome lined oven quickly, easily without reaching or stretching. The door comes off with a flick—goes back just as quick. Just one of the many features that prove

TAPPAN IS DESIGNED WITH YOU IN MIND

TAPPAN
GAS RANGE

Another Tappan feature is the new Pres-Toe broiler. Just press a pedal—the broiler comes full out. Every inch of space is see-able, usable—makes food watching and turning so much easier. You'll serve broiled foods often with a convenient Tappan Pres-Toe broiler.



How modern is YOUR range?

Here are a few of the features of the new Tappan. Check your present range against this list. You'll quickly see why Tappan is the first choice of American women.

TAPPAN OFFERS YOU:

- **Lift-off oven door for easy oven cleaning**
- **Pres-Toe broiler for added convenience**
- **Tel-U-Set for improved automatic cooking**
- **Chrome lined oven for better baking**
- **Visiguide for fingertip cooking reference**
- **Visualite oven with see-through door**

Even if you live miles beyond the gas mains you can enjoy *all* the conveniences of modern automatic cooking. For complete demonstration visit your Tappan LP dealer. See how easy it is to own and enjoy a Tappan. There's a Tappan range for every budget, every kitchen. Models for city gas, Philgas and other LP (bottled) gases. For complete catalog see your dealer or write The Tappan Stove Company, Dept. SF-112, Mansfield, Ohio.

Compare and you'll take TAPPAN

Are you an eager eater?

From page 101

a big gooey sundae or a double malted!

There's nothing abnormal about all this. We all have these same urges to console ourselves for disappointment or frustration with a piece of candy, or drown our sorrows in a deluge of fried chicken and dumplings. But it's hard on figures and you should be realistic enough to count the cost before you settle for food benders to ease your hurt feelings. Would you rather gorge on angel cake or look like an angel? You must choose between them.

Ellen did. Let's see how she went about it. She came from a family, like many others, that placed great emphasis on rich food. (Farm families are more apt to do so than city families.) Ellen's mother was foreign-born and had never been able to master English. For this reason she couldn't share her daughter's social life or feel that Ellen was proud of her. She tried to make up for it by feeding her daughter lavishly on rich pastries.

By the time she was 16, Ellen was badly overweight and inclined to blame it on heredity. Her mother, too, she said, was small-boned and stout. But a doctor at the school health clinic told her that excessive weight is usually due to what you put into your mouth and swallow *after* you are born, not to inheritance.

Ellen needed more than a diet list to help her slim down to her present attractive proportions. She needed a better relationship with her mother, of whom she felt ashamed because of a foreign background which made her different from her friends' mothers. Ellen found it when a square-dance group was organized and her mother became much in demand because she was such a good "caller" and knew so many interesting peasant dances.

But Ellen needed more than this to get over her use of food as a substitute for other satisfactions. Here are some of the things the school doctor told her to do:

> **Happiness consists of activity—it is a running stream, not a stagnant pool.**
> —*John Mason Good*

1. Develop some new interests and hobbies. When you're busy, you won't have time to think so much about yourself. You'll forget about stuffing yourself just for "something to do."

2. Make some new friends. Friendships are far more satisfying than any amount of popcorn or Boston cream pie. To be a good friend, you have to be "outgoing" and this helps you forget yourself.

3. Solve your *real* problems—don't hide them behind a plate of mashed potatoes. Is it shyness that bothers you? Most other people are shy, too! Do you fear you aren't pretty enough? Few of the women who have mattered most in life have been pretty. Do you feel unworthy in some

way? Most of us *are*. Perhaps Ellen's own comment on this point will help other enlarged stomach-ers, too. Here it is:

"Depend on *desert*, not dessert!"

This means, of course, that like other mature people, you have to earn the approval you want by doing something worthwhile to attain it.

4. Find some sympathetic person with whom to discuss your troubles and problems. This can be one or both of your parents, a brother or sister, a good friend, a favorite teacher, your family doctor, or your minister. Just talking things out is a fine way of getting them off your chest. It's hugging them close and nursing your sorrows that makes you so unhappy you finally resort to eating three pieces of devil's-food cake.

5. Buy or make a "dream" dress for yourself. Select it one size smaller than you can get into at present. Then work toward fitting into it perfectly. This is both a goal and a reward. Another might be to allow yourself one portion of some favorite food every time the scales say that you have lost 5 pounds. It could be a piece of candy, a soda, or a helping of fried chicken.

If you are badly overweight, see your doctor before you embark on this adventure and let him prescribe a diet for you. The so-called "miracle" diets are often dangerous. And if you are wise you won't tell other people that you are reducing. There are two reasons for keeping mum about it. One is that talking about it tends to weaken your determination.

The other is that friends who know you are reducing have a way of making it harder for you. They worry about how "bad" you look and tell you how someone dieted herself into some disease or a nervous breakdown!

Finally, stay away from the *first* tidbit that shouts to be popped in your mouth and you won't be so likely to fall off your diet. It's always the "just this one" piece of candy or plump doughnut that weakens your campaign and leads to the second, and then to the third, alas!

If you must nibble between meals, be a good bunny and crunch on carrot sticks or raw celery. A cup of cheering hot bouillon in the middle of the afternoon or at bedtime will lift your spirits, too.

All this has to do with learning to grow up emotionally. Do stop trying to hide your real hunger behind a plate of food. Your true appetite is for something that will satisfy your yearning for life and growth. Seek these satisfactions for creative achievement and you will soon be able to feel proud of your trim figure, your popularity, and your sparkling personality. Life has greater thrills in store for you than a banana split!

When hearts and minds are full, stomachs don't feel so empty. Everything inside you is crying out for new emotional development. But you can't achieve this kind of growth merely by putting on physical weight. It's an inner growth you really crave. So break out of your shell, don't pop your seams! **END**

$10,970.00 IN PRIZES

272 WINNERS in this BIG "TELL IT TO BETTY CROCKER" Contest

2 BIG SETS OF PRIZES!

136 AWARDS FOR WINNING TOASTER ENTRIES

1st Prize..$2,500.00 in cash.
2nd Prize...1,000.00 in cash.
3rd Prize....250.00 in cash.
8 4th Prizes...100.00 in cash.
25 5th Prizes...General Mills Automatic Toaster..$22.95
100 6th Prizes, Betty Crocker Picture Cook Book...$3.50

136 AWARDS FOR WINNING IRON ENTRIES

1st Prize..$2,500.00 in cash.
2nd Prize...1,000.00 in cash.
3rd Prize....250.00 in cash.
8 4th Prizes..100.00 in cash.
25 5th Prizes...General Mills Tru-Heat Iron and Steam Ironing Attachment, $23.90
100 6th Prizes, Betty Crocker Picture Cook Book...$3.50

IT'S EASY TO ENTER

HERE'S ALL YOU DO:

Just see the General Mills Tru-Heat Iron and Steam Ironing Attachment combination and the Automatic Toaster at your favorite store. Select either the Combination or the Toaster to write about. Then, simply write Betty Crocker —in 25 words or less—why you would like to own it. 136 separate prizes will be awarded in each division — 272 prizes worth $10,970.

General Mills Tru-Heat Iron and Steam Ironing Attachment

A steam-and-dry iron that makes real sense! Comes apart for lighter, faster ironing. Use combination for easy pressing, steam ironing. Lift out Tru-Heat Iron for *regular* ironing. Iron is shaped for speed —irons backward as easily as forward. And it rests on its side, so you don't have to lift it.

General Mills Automatic Toaster

Pops toast extra-high so even small-sized breads are easy to remove. Exclusive double automatic thermostat assures dependable edge-to-edge browning every time. Rich, handsome styling. Handy hinged crumb tray makes this superb toaster easy to clean.

RULES FOR GENERAL MILLS HOME APPLIANCE "TELL IT TO BETTY CROCKER" CONTEST

1. On official entry blank complete in 25 additional words or less, either "I would like to own a General Mills Tru-Heat Iron and Steam Ironing Attachment because....." or "I would like to own a General Mills Automatic Toaster because....." Sign your name. Also print your name and address. Mail to BETTY CROCKER, Post Office Box 1700, Minneapolis, Minnesota.

2. Send as many entries as you wish, but each entry must be on a separate official entry blank obtainable at stores carrying General Mills' appliances. If your dealer doesn't have blanks, send his name and address to General Mills, Box 601, Minneapolis, Minnesota, and we'll forward him a supply.

3. Entries must be post marked not later than November 24, 1952 and received by December 8, 1952.

4. Toaster and Iron entries will be judged separately on the basis of originality, uniqueness, aptness of thought and clearness. Each entry must be the original work of the contestant submitted in his own name and with his own signature.

5. Judges decisions are final. Only one prize will be awarded to members of a household. Duplicate prizes in case of ties. Entries become the property of General Mills, Inc.

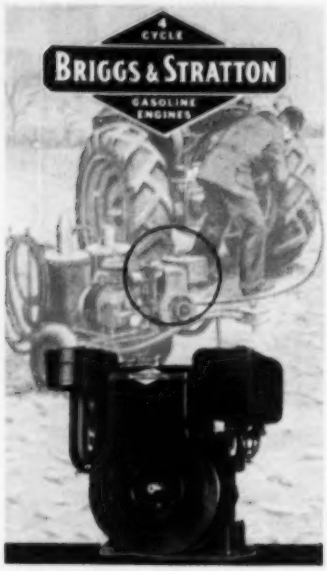
6. Contest is open to all residents of continental United States except employees and families of employees of General Mills, Inc., its advertising agencies and the organization handling and judging the contest.

7. An official list of the prize winners will be available approximately 6 weeks after the close of the contest to all who send in a request accompanied by a stamped, self-addressed envelope to General Mills, Inc., Dept. 235, 623 Marquette Ave., Minneapolis, Minn.

General Mills Home Appliances SPONSORED BY Betty Crocker

Get Your Official Entry Blank at your

GENERAL MILLS APPLIANCE DEALER



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Bigger capacity, more power! Saws 30" log in thirty seconds. Convenient control on both models instantly stops, starts saw. Choice of cutter bar lengths.

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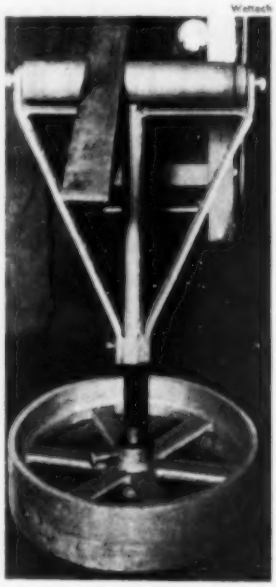
Wattach



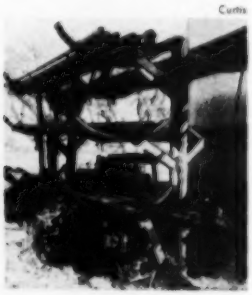
Munson

Electric power jack is used to unload silage, operate elevator, and pump water by Lowell Hildreth, Rockwell City, Iowa. Jack is mounted on running gear for easy moving. A 2-hp electric motor has eight speeds when geared through two automobile transmissions

Adjustable rest acts as extra hand in farm shop for Fred Herman, Washington County, Iowa. Rest is useful for grinding sickles, working flat iron, and welding. Round pulley base is easily moved by rolling. Telescoping pipes provide sliding adjustment for height. Braces support an iron pipe which turns on bolt passed through it

Krill

Curtis



Pipe rack keeps pipe handy and neat for Raymond Morris, Garden City, Kansas. Old iron wheels were cut into thirds and welded to upright. Base is two other wheels

Tractor boom, built by Lief Garver and his sons, Boardman, Ohio, makes it easy to carry suspended material around farm. A hand winch, made of a shaft and two auto brake drums, is mounted on front end. With only four bolts holding, it is quickly put on or removed

Wattach

A concrete loading chute, built with turn in it, makes loading cattle simple, says Glenn M. Lehr, Jones County, Iowa. Cattle are in chute before they see truck. Slanting ramp is 10 feet between entrance and turn. From turn to exit is level stretch of 5 feet. Walks on side are supported by angle irons

The "Cat" Diesel Tractor pulled 12-16s and traveled about 3500 miles while plowing the 6880 acres.

These folks watched the "Caterpillar" Farm Tractor complete its record run in 1932 . . . here they celebrate its 20th anniversary.

"Cat" Diesel Tractor sets World Record

Plows 6880 acres for 7.78¢ per acre
(as reported in *The Oregon Farmer*)

April 29, 1932 . . . This "Caterpillar" Diesel Tractor made farming history today. It has just completed a world's record for economy and performance unequaled by any other farm tractor: in 1055 hours...46 successive 23-hour working days...this "Cat" Diesel Tractor plowed 6880 acres of hard, dry, wheat land. That's an average of more than 6½ acres each hour. Fuel costs were 5¼¢ per acre. Total fuel, lubrication, and grease expense averaged 7.78¢ an acre. No other tractor on record has ever done so much for so little! If this work had been done with horses, 360 head would be needed to plow the 6880 acres in the number of hours the "Cat" Diesel Tractor did the job!

Record-Breaking "Cat" Diesel Tractor now 50,000 hours old!

(Owner's report)

April 30, 1952 . . . Celebrating its 20th anniversary, this old record-breaking "Cat" Diesel Tractor pulled 60 feet of rod weeders in second and third gear, burning about 5 gallons of low-cost Diesel fuel per hour. Folks who had witnessed the record run back in 1932 avowed, "She runs practically as good as new"; and fuel and performance records prove they were right! Present co-owner, Harold Hartfield of Arlington, Oregon, says this: "We're 100% for 'Caterpillar'. Down through the years, the dollars we've spent for purchase and maintenance of 'Caterpillar' track-type Tractors have been wisely spent. They are the best money can buy."

You'll set plenty of records in your neighborhood with a "Caterpillar" Farm Tractor. You'll get your work done ahead of your neighbors . . . you'll cut your fuel bill by 60% to 80% . . . you'll farm land you can't with wheel tractors . . . you'll slash your maintenance and depreciation costs to an all-time low. Your Dealer will make early delivery on most sizes of "Caterpillar" Diesel Tractors, so call him today. Take your choice of 5 sizes ranging from 32 to 130 drawbar horsepower. Order yours equipped with "Caterpillar" Bulldozer for slack season work. Write for the free cartoon booklet "Power Farming with 'Caterpillar' Diesel Tractors."

Address inquiries to Caterpillar Tractor Co., Peoria, Ill. "Caterpillar" builds Diesel Farm Tractors, Engines, Motor Graders, and Earth-moving Equipment.

After an estimated 50,000 hours of work . . . equal to 50 years on average farms, the old-timer still handles 60' of rod weeders on 5 gallons of low-cost Diesel fuel.

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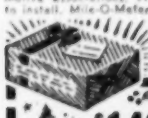
FOR ANY MAN WHO OWNS A CAR

● Mile-O-Meter is the most practical and fascinating gift any car owner can receive. It mounts permanently on the dashboard (without drilling any holes) and continuously indicates both "miles-per-gallon" and the condition of the engine, warning clearly when minor adjustments are necessary to prevent costly breakdowns and repairs. Fully endorsed by leading automotive associations. Fits all cars — really simple to install. Mile-O-Meter is the automotive accessory that every man wants. Beautifully gift-wrapped. Orders mailed same day received. Money-back guarantee.



$14.95 Deluxe Illuminated Model 2½" dia. Pat. Pend. Pat. Des. Incl.

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Send check or M. O. ... allowed prepaid (add 25c for special delivery). C.O.D.'s accepted (plus postage).

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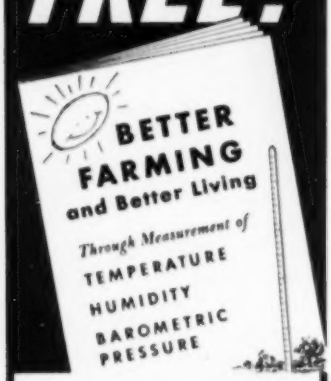

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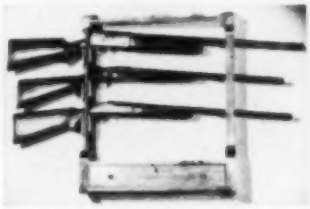
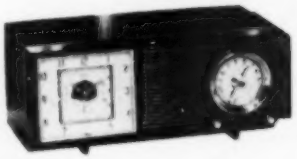
Early Christmas shopper

For Dad



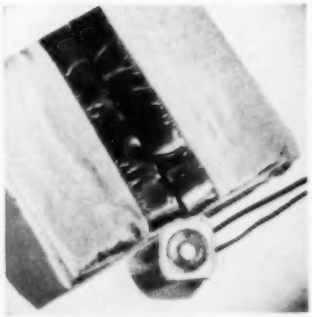
Foolproof gunrack keeps guns safe. By mail $19.95, express collect from *Yield House, North Conway, New Hampshire.*

Hercules vault protects valuables at home from fire and theft. Easy to install. Weighs 55 pounds. Available at $42.50 F.O.B. from *Meilink Steel Safe Company, Toledo 6, Ohio.*



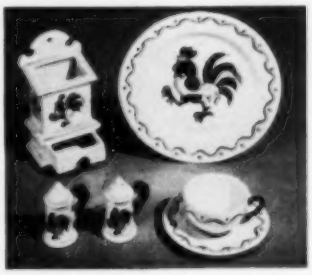
Clock radio with automatic alarm. Beige or maroon. About $50 at appliance shops. *Philco Corp., Philadelphia, Pennsylvania.*

"Snorkel," a new type fountain pen, is messproof. At stationery stores. Priced $12.50 up. *Sheaffer Pen Co., Fort Madison, Ia.*



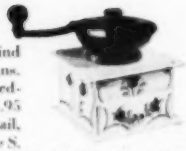
Automatic electric blanket in single or double size; $54 to $67 in electric goods stores. *General Electric Co., 1285 Boston Ave., Bridgeport, Connecticut.*

For Mother



California Provincial, a gay patterned pottery, 16-piece set for $12.95. In stores or write *Metlox Manufacturing Co., 1200 Morningside Dr., Manhattan Beach, Calif.*

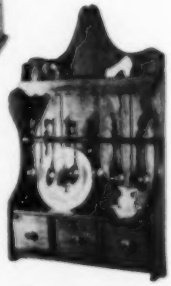
Electric tole clock, 12 inches in diameter, AC current; $9.95 ppd. (West of Mississippi add 15 cents for the postage.) Order it from *Amy Abbott, Inc., 344 West 52nd Street, New York 19, N.Y.*



Gay mill to grind fresh coffee beans. Hand-painted redwood case. $11.95 in shops, or by mail, ppd., from *George S. Thompson Corp., 509 Mission St., South Pasadena, California.*

Hen casserole comes to the table in colorful ovenproof pottery; $3.75 ppd. from *Old Mexico Shop, 110 Don Gaspar Ave., Santa Fe, New Mexico.*

Salt-box planter, $5.50 ppd. from *Corral Shop, 918 Las Planideras Road, Rancho Santa Fe, California.*



A spice cabinet and spoon rack made of pine—20 inches high. Costs $15, ppd. Order from *Corral Shop, 918 Las Planideras Road, Rancho Santa Fe, California.*

More on page 108

Better See Motorola TV

SEE HOW PERFECT PICTURE TELEVISION COMES ALL THE WAY OUT TO YOU WITH THIS BUILT-IN

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AREA SELECTOR SWITCH. 3-position built-in signal booster for extra pull-in power. Gives close-to-station, clear, sharp pictures even though 'way out of town.

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2. "New Dimension" Cylindrical Tube. Curved side to side for sharpest, most realistic picture in TV.

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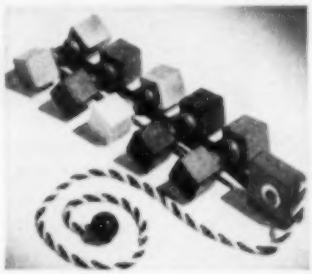
Christmas shopper

From page 106

Gifts under $2

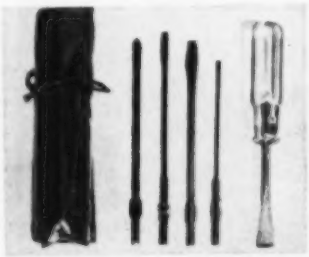


"Clatter Piller," child's pull toy of gay-colored wood blocks, is $1.29 ppd. *Giftcraft, 1234 E. 47th St., Chicago, Illinois.*

Linen recipe towels, hand-decorated in gay colors. Printed with famous recipes. Size 16x30 inches. Unusual gifts! Each $1.25, or 6 for $6.—*The Post Mart, Inc., 1217 Lexington Ave., New York 28, New York.*

Glazed flowerpots, hand-painted, 4-inch size; $1 each, 3 for $2.50, postpaid, *Old Mexico Shop, 110 Don Gaspar Avenue, Santa Fe, New Mexico.*

Chlorophyll candles. Pine scent dispels food odors. Per pair, $1.10 ppd.—*Victrylite Candle Co., 24 Lake Dr., Oshkosh, Wis.*



Handy 6-piece set of screwdrivers interchangeable with plastic handle. $1 ppd.—*Home-Maker's Haven, 73-04 37th Ave., Jackson Heights, Long Island, New York.*

Beats, Blends, Mixes Whips . . . Perfectly!

Adjustable handle for right or left hand use . . . stainless steel blades . . . mixes anything mixable. At hardware, home furnishings, and department stores

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Hand Beaded Moccasins and Matching Bag Correct for all Casual Wear

COLORS: Pearl, Natural Palomino, Turquoise
RICH SUEDE LEATHERS
AIRFOAM INSOLES
MISSES: 10 to 3
LADIES: 2½ to 9

Moccasins 3.99
Matching Bag 6.95

THE WIGWAM
SCOTTSDALE 2, ARIZONA
Largest selection of moccasins in the U. S.

YOUR BOY WILL SAY "It's Terrific!"

NEW BULLDOZER TRACTOR

Thrill your youngster, stimulate his imagination with this NEW, Bulldozer Tractall Tractor. With it he will do all kinds of constructive "play-work". Rugged-ly built. Chain-drive. Ideal for children up to age 12. Sold Direct from factory. Write today for FREE LITERATURE and TRIAL OFFER.

INLAND MFG. CORP., Dept. SF-11
164 Ellicott Street, Buffalo 3, N. Y.

Stunning
MAGAZINE RACK

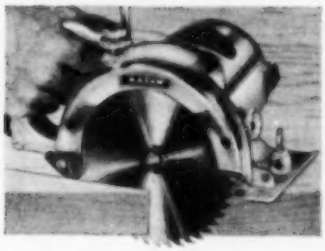
This beautiful Wrought Iron Rack will look lovely in any room, office or terrace. Choice —Verde Green or Satin Black. 13¼" high x 12½" wide.
ONLY $3.95
plus 35c postage

NO COD'S FREE! WRITE FOR NEW GIFT 'N GADGET CATALOG

MASTERCRAFT
211 SUMMER ST.
BOSTON 10, MASS.

On farm building, repairing

does the work of $115 to $125 saws



Heavy Duty — All Ball and Roller Bearing — Industrial quality

only $69.50

MAXAW 700

with magic•pivot

Speed up all farm repair and maintenance on buildings and equipment—the easy way, with this first truly practical "electric handsaw." You cut angles, bevels, ends and joints exact and accurate; zip through all lumber including 2 x 12's *with blade to spare!* Maxaw 700 does the work of saws costing up to $125.00.

Exclusive **magic • pivot** gives you this amazing cutting capacity, easy-handling weight of only 10 lbs., and bed-rock prices!

Your saw blades last twice as long, stand three to four more sharpenings, put more power where it's needed—at the cutting edge.

Compare amazing Maxaw 700 with other saws, in the chart below—

HERE'S PROOF—magic • pivot does it!

MAKE	BLADE DIA.	WEIGHT	CUT AT 45°	STRAIGHT CUT	*PRICE
MAXAW 700	6-3/8"	10 lbs.	1-1/8"	2-1/16"	$ 69.50
Saw A	7-1/4"	15-3/4 lbs.	1-1/4"	2-3/8"	$122.50
Saw B	7-1/2"	15 lbs.	1-21/32"	2-1/2"	$125.00
Saw C	7-1/4"	15 lbs.	1-7/8"	2-1/2"	$125.00
Saw D	7-1/4"	16 lbs.	2"	2-1/4"	$115.00

This is your proof of **magic • pivot** *performance.* Competitive prices quoted were as of January 1, 1952. Saws A, B, C and D are priced only with cases; MAXAW cases, if wanted, $10 extra.

See and try this best farm "electric handsaw" value at your nearest hardware or farm implement store . . . today.

Cummins

Cummins-Chicago Corp.
4740 N. Ravenswood, Chicago 40
334 Lauder Ave., Toronto 10, Canada

Christmas shopper

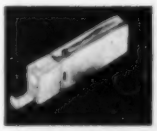
Gifts under $2

A musical Christmas card—plays "Jingle Bells." Comes with a colorfully designed mailing carton; $1 ppd., from *Mahoning Gifts, 808 Elm St., Youngstown, Ohio.*

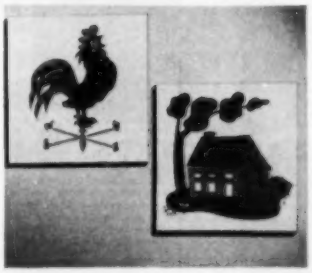
Wee Willie Moisture Bird. Water poured in his mouth seeps through porous stem, keeps plant moist 3 days; $1 ppd.—*Maymac Co., 79-S West Grand St., Mount Vernon, New York.*

File-o'-Spice, 10 packages of herbs and spices in box; $2 ppd. —*Greenland Studios, 5858 Forbes St., Pittsburgh 17, Pa.*

Miniature trivets, in black wrought iron—5 inches long. Patterns: "Grape," "Peacock" and (not shown) "Tassel and Grain." Each 75 cents, or set of 3 for $2, postpaid. —*Ruth Herleman Studio, South 42nd St., Quincy, Illinois.*



A key-chain flashlight. Gold plastic finish, 3 initials, $1.25 ppd.—*Damar Distributors Inc., 22 Trent Pl., Newark 2, New Jersey.*



Hand-painted ceramic tiles 6x6 inches; $1.50 ppd., 4 for $5.75. —*Corral Shop, 918 Las Planideras Rd., Rancho Santa Fe, Calif.*

More on page 110

In the FARM shop,

equals $60 drills in power, long life

only $39.95

MODEL 220

DRILLS ½" DIA. IN METAL 1" DIA. IN WOOD

This is the "hired man" you have been looking for to help you keep your farm equipment on the job and your production rolling. The Cummins Model 220 is built especially for heavy-duty farm use . . . does the work of drills costing up to $20 more.

Heart of any drill is the motor—so the 220 has Cummins double-coil motor with dynamically balanced armature—the type always used in industrial drills which are subjected to heavy, continuous use, far in excess of what you will need.

With all this power you drill through heaviest cast iron and steel plates, frames, angles, bars and sheets, heavy timbers and lumber—easily, with power to spare.

Your Cummins 220 drill will quickly pay for itself in money saved on repair and maintenance costs...in jobs done faster and time saved.

See your nearest hardware or farm implement store *today.* Ask for the Cummins Model 220 drill.

Cummins

Cummins-Chicago Corp.
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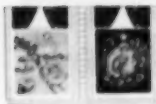
334 Lauder Ave., Toronto 10, Canada



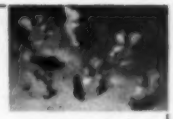
WINDOW SCENES

Your Own Stained Glass Windows!

Transform your windows into glowing stained glass for Christmas! These full-color scenes look just like stained glass when light shows through them. 18" by 20" complete with fastening tape. Two styles: Madonna or Santa Claus. Can be used for years. **98c** each. **$1.96** pair ppd.

ANGELS ON A STRING

Adorable Christmas Decorations!



So Xmasy, with wings, harps and candles! So charming, perching in the tree or peeping demurely from your holiday greens. Hand-painted and carved from wood in the Italian Alps. They'll live for years on your whatnot shelf. **3** for **$1.00** ppd.

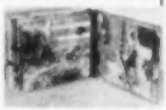
CORNUCOPIA

For Festive Tables!

Beauty for your holiday table—this lovely Horn of Plenty pouring forth fruit or flowers! In strong willow reed, natural color, with 3 tiny feet for support. Overall length 14", opening 7" in diameter. (Fruit shown not included) **$1.95** ppd.

SQUEEKUM BOOK

Cows Moo . . . Pigs Squeal!



Youngsters get a kick out of this unique talking animal book. There's a familiar yet different animal on each page that emits its own particular squeak as the page is lightly pressed. A whole farmyard of fun in gay colors . . . . . **$1.50** ppd.

Write for big, FREE Christmas Catalog

Mail Orders Promptly Filled. Satisfaction Guaranteed.

Send Check or M. O. *No C.O.D.'s Please.*

SPENCER GIFTS, DEPT. S-11, ATLANTIC CITY, N. J.

DAY-n-NIGHT

MAILBOX MARKERS

Reflector lettering—glass beads mirror light at night (like road signs)
Permanent embossed letters and numbers 1½" high
Lifetime aluminum—rustproof
Baked enamel—white beaded letters—black background
Double plate 18" long—reads the same from either side

These attractive markers make thoughtful gifts — and make it easy for friends to find your home DAY-n-NIGHT. Install in a minute. Any wording you want, up to a total of 15 letters and numbers. PLEASE PRINT CLEARLY.

C.O.D. if desired—less postage added. Canada residents add 1% sales tax.

Quantity discounts to clubs, church groups, etc.—for resale. Write for details.

MAILBOX MARKER
fits any mail box

$1.95 POSTPAID

Spear ENGINEERING COMPANY
3618 Spear Bldg. Colorado Springs, Colo.

SATISFACTION GUARANTEED OR MONEY BACK

For help with your home planning, furnishing and decorating problems, visit one of the stores cooperating with Successful Farming's home planning service. You'll find a store near you listed on page 87.

Clip Cows Regularly With

Sunbeam

STEWART CLIPMASTER

A Perfect XMAS GIFT

CLIPS Cows, Horses Mules, Dogs, faster, better

Nationally known Dairy and Health Authorities say: Clipping prevents dirt accumulation—the chief source of sediment. Clipped cows are easier to keep clean, produce more desirable milk with low bacteria count, less sediment. Over-all clipping helps control lice infestation. For best clipping results use Clipmaster. Preferred for its convenient size, ease of handling, lasting durability. $37.95 (Colorado and West, $38.25).

Grooming Head Fits

Your Clipmaster

Grooming Brush attachment does better job of cleaning dairy cattle. Write for information on Sunbeam Stewart clipping equipment.

Sunbeam CORPORATION
Dept. 95, 5600 W. Roosevelt Rd., Chicago 50, Ill.

EXTRAORDINARY **Burpeeana Early ASTERS** FREE Seeds

They grow even where others have failed for years!

EXTRA EARLY, EASY TO GROW

ENTIRELY NEW STYLE

A new sensation with so much vigor the tall, erect plants bloom weeks ahead of usual early kinds, escaping plant diseases. Larger flowers, on long stems. ***For a limited time,*** we'll mail 50 Seeds FREE, mixed colors—send stamp for postage. *Burpee Seed Catalog also free.*

W. ATLEE BURPEE CO., 318 Burpee Building, Philadelphia 32, Pa. or **Clinton, Iowa** or **Riverside, Calif.**

"Hopalong Cassidy's" Very Own Horse "TOPPER"

Neighs As Kids Ride Him

Kiddie Size $1.98
1 to 5 yrs. Old—22" Tall Plus 30c Postage

Child's Size $2.49
Illustrated 5 to 10 yrs. Old—28" Tall Plus 30c Postage

Sensational New Vinyl Plastic Inflated Horse, decorated with Hopalong Cassidy's Picture, and made to look just like his famous horse, "Topper," actually ROCKS—BOUNCES—MENDS! Kids can sit on him and bounce right across the room. Topper neighs with every bounce. Sturdy "Topper's" broad back—he neighs with delight. Pull his reins, he whinnies. Important to be soft TOUGH—Safe—Clean—Strong enough to support a 300-lb. man. "Topper" is made of 10 gauge Vinylite stuff proof plastic, electronically sealed. Suitable for ALL kids from 1 year to 10 years old because each child rides "Topper" his own way—and "Topper" can take it!—Fully Guaranteed. C.O.D. Orders Accepted.

P. J. HILL CO., Dept. T-129, 933 Broad St., Newark, N. J.

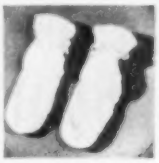
Genuine Leather Wallet He'll Be Proud to Carry! . . . The HALVORFOLD

In this smooth, luxurious-looking genuine Morocco leather Halvorfold, everything's in order. Looseleaf device holds 8 club or lodge identification cards, licenses, etc. (12-card, 25c extra; 16-card, 50c extra). Folds flat in pocket. Stays new for years. Not sold in stores. At no extra cost—tooled lodge or fraternal emblem outside AND your name, address and emblem 23K GOLD-stamped inside. Clip this ad, PRINT name, address for GOLD stamping and mark correct squares: BEAUTIFUL long-lasting, rich Morocco ( ) Black ( ) Brown—outside tooled emblem ( ) Mason ( ) Eagle ( ) K.C. ( ) None. Pay postman $3 plus C.O.D. charges, or send check or money order LESS 2% CASH DISCOUNT. My guarantee is as always—FULL SATISFACTION OR YOUR MONEY BACK. Write TODAY: Halvorson, P.C.M. Sta. G., Jacksonville, Fla., Dept. 110

Christmas shopper

From page 109

For the youngsters



Comfy slipper socks for babies. Have glove-soft leather soles and are washable and shrink-resistant. Ribbon ties around top. Come in green, white, yellow, pink, blue. At infants' stores, $2.50, or ppd.—*Herrow's, 103 N. Aurora St., Ithaca, N. Y.*

Junior set of sterling silver in lovely "Old Master" design (or others) to match adult sets. A lifetime gift that he'll pass along to his own child. Set with tax $15.49 at the department and jewelry stores selling Towle's sterling.

Child's sewing machine that actually sews—just turn the wheel; $4.75 plus 25 cents postage from *Amy Abbott, Inc., 344 W. 52nd St., New York 19, New York.*

"Annie Beansprout" is a clever rag doll with freckles, 4 red braids, and bowlegs; $4.20 ppd.—*Amy Abbott, Inc., 344 W. 52nd St., New York 19, N. Y.*

Combination peg and hammer-nail table and bench. Green-enameled wood. Child learns while he plays. Size 10"x20", 20" high. About $8 at department and toy stores. *Playskool Mfg. Co., 1750 Lawndale Ave., Chicago 47, Illinois.*

Latest "know-how" in foods

Your market basket of new products, ideas, research

Here's a new way to add storage life to frozen foods. According to experiments done by the Quartermaster Food and Container Institute, monosodium glutamate (a tasteless seasoning that intensifies flavor) will increase the storage life of frozen foods. In the study a variety of meat, poultry, and vegetable products were treated with monosodium glutamate, quick-frozen, and stored at temperatures of zero and 10 degrees. Examination of the sample was made each month. Odor and appearance before thawing and taste and flavor after cooking were checked. A trained panel checked the results of the treated food against regular frozen food.

More news about frozen foods: Fresh-frozen pineapple juice and frozen pineapple chunks will be introduced shortly in the East. After they have been introduced, the company making these frozen products will spread them westward across the country. The frozen chunks will be packaged in a can instead of a package.

Newest addition to Junior's diet: A simple way to get enough egg yolks into your youngster's meals is with powdered egg yolks. This new product has been tested by numbers of mothers with young babies. Mothers on the testing panels favored sprinkling the fluffy powder on cereals, in soups, and on Baby's vegetables. The powdered egg yolks stay fresh and fluffy when stored covered in the refrigerator. Powdered egg yolks are nationally distributed.

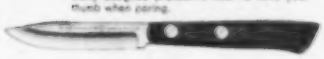
For orange-juice drinkers: A new concentrated, canned orange juice said to retain the flavor of fresh orange juice without requiring refrigerating is now being put on the market in the Midwest.

Spreads easily when cold is the claim about a new margarine now on sale in New York State. The margarine, scheduled to have national distribution later on in the year, will spread with ease even when fresh from the refrigerator. The margarine also creams easily for baking. This margarine is said to hold its shape even when left standing for several hours in a warm kitchen.

FLINT
STAINLESS VANADIUM
CUTLERY

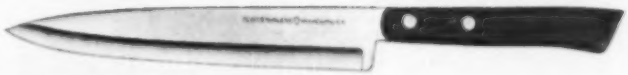
MADE BY EKCO

Paring Knife
Flint Stainless Vanadium Steel blade has specially designed protective heel to save your thumb when paring.



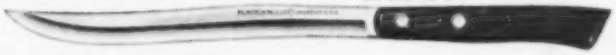
Utility Knife
For boning, cutting fruit and a hundred other tasks—the finest knife you've ever used.

French Cook's Knife
Perfectly balanced and shaped for dicing and chopping vegetables and fruits.



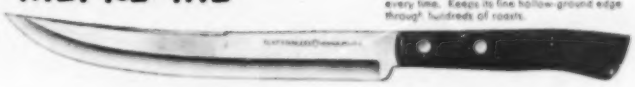
TO GIVE...TO OWN...

Steak Slicer
Long, slim blade slices easily through steaks and other meats.



THEY'RE THE

Roast Slicer
For those wonderfully thin, even slices of roast every time. Keeps its fine hollow-ground edge through hundreds of roasts.



FINEST KNOWN!

Bread and Ham Slicer
Fine serrations on its cutting edge—ideal for cutting all kinds of baked goods and meats.

Made of Stainless Vanadium Steel to Start Sharp... Stay Sharp!

Flint blades are of gleaming stainless steel with genuine *Vanadium* added to give them extra sharpness-holding strength. Leather-honed like a razor right at the factory for amazing keenness. Hi-arc, hollow-ground blades for every cutting purpose. Comfort-grip imported rosewood handles. Handsome Holdster Sets, also open stock, wherever fine cutlery is sold.

For The Perfect Gift...
Famous Flint Holdster houses the 6 most useful knives a home can own. Hangs on wall or fits in drawer. Roast Slicer, Steak Slicer, French Cook's Knife, Bread and Ham Slicer, Paring Knife and Utility Knife. Give Flint Holdsters for every gift day.

EKCO PRODUCTS COMPANY, CHICAGO 39
Also sold in Canada by Ekco Products Co. (Canada) Ltd., Toronto

ANOTHER GREAT PRODUCT BY EKCO THE GREATEST NAME IN HOUSEWARES

TOWELS
12 Large Size Assorted Colors ONLY **$1.00**
Money Back Guarantee. Order Now!
Murray Hill House, Dept. FM
157 East 31st St., New York 16, N.Y.
Dealers' Inquiries Invited

I MAKE UP TO $40 EVERY DAY
That's what you'll be saying when you line up with our company full or spare time. We pay you every day for listing delinquent accounts for collection—second Drug products, dentists, business firms, merchants, etc. No selling, demonstrating or collecting! Chance to become District Manager.
WRITE TODAY — If you are between 30 and 65. Both men and women wanted!
UNITED FINANCIAL SERVICE OF AMERICA
236 Plymouth Bldg. Minneapolis 1, Minn.

WOMEN WANTED TO MAKE MONEY
Turn spare hours into cash calling on friends, neighbors, and showing them beautiful, newest-style dresses, and lingerie, hosiery, children's wear, men's shirts, socks, etc. Take orders at amazingly low prices with big profit for you. No experience needed—and no money needed, ever. You can even get personal dresses for yourself without paying 1 cent!

SAMPLES FREE!
SEND NO MONEY—Rush name today for big package of **ACTUAL SAMPLE** fabrics and complete, colorful style presentation—all **Absolutely Free**—with complete instructions and money-making plans. Send name and age to Mr. B. J. Melville, Pres.

THE MELVILLE COMPANY
Dept. 7598, Cincinnati 25, Ohio

POWERFUL!

Man, here's *light!* ¼-mile beam — 15,000 candle power. Compact, easy to carry, built to last! Uses two 6 v. batteries. See your dealer.

$6.50 less batteries

DELTA ELECTRIC CO., Marion, Indiana

Delta POWER-KING ELECTRIC LANTERN

cut Tractor costs this new way!

Join the thousands of tractor owners now saving big money by replacing piston rings at the first sign of wear!

It's practical now, with Hastings Chrome . . . revolutionary new piston rings faced with smooth, hard, cylinder-saving chrome . . . rings that last so much longer that it really pays to re-ring without waiting for a complete overhaul.

A simple re-ring costs only about one-third as much as a major overhaul with re-sleeving or re-boring operations. And Hastings Chrome Sets give many times the life of plain rings . . . hundreds of extra hours of service . . . top engine performance and fuel economy. They prevent oil-pumping—and power drop-offs—between overhauls. Many repairmen report *two* successful re-ring jobs before re-sleeving is necessary.

So don't wait! Get your tractor ready for spring. Install Hastings Chrome Rings to keep costs down, to keep power up, to stretch engine life and preserve its efficiency.

FREE FARM RECORD BOOK! WRITE DEPT. SF

HASTINGS MANUFACTURING CO., HASTINGS MICHIGAN • HASTINGS LTD., TORONTO
Piston Rings, Spark Plugs, Oil Filters, Casite, Drout

HASTINGS STEEL-VENT PISTON RINGS

TOUGH on oil-pumping
GENTLE on cylinder walls

For the Poultryman

Flock records profitable

Keeping flock records for 25 years seems a long time, but it has proved to be a sound principle for Albert McGee, poultry raiser of Adams County, Indiana. McGee, assisted by his wife, has kept daily records for a quarter century and knows just how much profit he has made during that time. He has learned pretty well when to increase his laying flock and when to cut it down in order to keep operating at a profit.

McGee says that in all these years, he has made money with his flock. Sometimes the profit was as little as $1 a day, other times as high as $30 a day. Every cent spent for chicks, equipment, heat and light, feed, and other expenses is recorded. At the end of the year they scan the records and use them to help plan for the future.

McGee feeds a ration of corn, oats, salt, middlings or wheat, and a commercial supplement. He formerly fed a commercial feed, but records showed a saving of $1.50 per hundred pounds of feed by using the commercial supplement with the grains. Plenty of grazing range for the young birds also cuts down on feed requirement and adds to McGee's net profits.—*S. M. S., Indiana.*

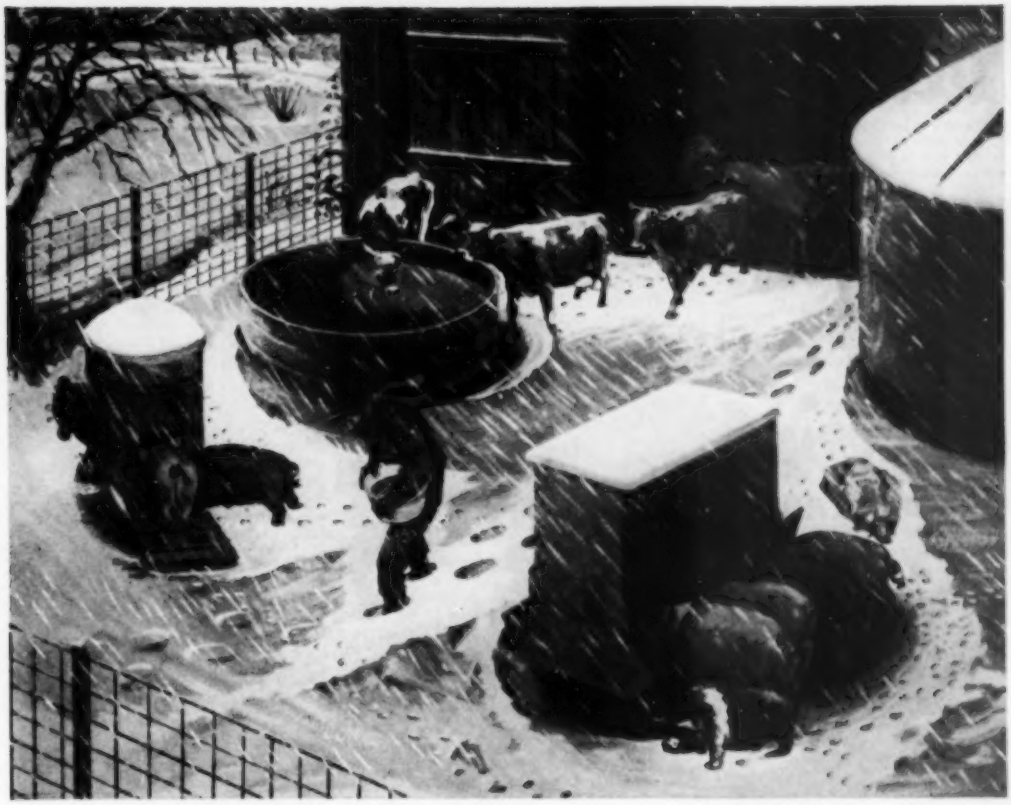
Boxes make good feeders

Wooden boxes are in use as experimental feeders in the laying house at the Cornell Experiment Station. The boxes are 4'x4' and the sides 15 inches high. The hens just jump into the box to eat. The sides are high enough so the birds can't scratch out the feed. The boxes are simple and cheap to build. Most poultrymen build them so they will hold at least 100 pounds of mash. The labor involved in feeding mash with this type of feeder is practically nil.

You are probably thinking, "They might be cheap and save labor, but how about droppings in the mash?" Surprisingly enough, the chickens are very sanitary and don't dirty their feed. Some poultrymen are using them for chickens as well as laying hens.

SUCCESSFUL FARMING

"Oh, no—let's not watch it on television—let's go enjoy the excitement—the color—the thrills . . ."



Will your barnyard equipment weather the winter?

When driving rains and snow strike your barnyard, your equipment will be ready to take the worst weather that winter can hand out if it's made of Armco ZINCGRIP Steel.

The reason is that Armco ZINCGRIP is well protected against rust. That's because of the special way the zinc coating is applied. This zinc grips the steel so tightly that it doesn't peel or crack off when it is formed into stock tanks, hog feeders and waterers, grain bins and other barnyard equipment.

This means there are *no unprotected places* where rust can start.

ZINCGRIP is only one of Armco's many Special-Purpose Steels used by manufacturers to give you better farm equipment. One of these steels reflects heat better and lasts longer in heaters and crop dryers. Another was developed especially to hold paint.

Be sure *you* get the benefits of these extra-quality steels. Look for the Armco trademark on the metal parts of the equipment you buy. It is your assurance that the manufacturer has used an Armco Special-Purpose Steel to give you longer, more trouble-free service.

ARMCO STEEL CORPORATION

HEADQUARTERS AT MIDDLETOWN, OHIO, WITH PLANTS AND SALES OFFICES FROM COAST TO COAST • THE ARMCO INTERNATIONAL CORPORATION, WORLD-WIDE

ARMCO

Pulls Feed

Hi-Suction fan in Case Feed Saver Hammer Mills pulls ground feed out fast with little time for re-grinding to dusty powder. You gain time, feed; save fuel.

Thru Fast

Powdering wastes feed and power, causes heating and slow grinding. Animals don't like dusty feed, eat less of it, fall off in production. You're the loser.

LESS Powdering IN FEED GRINDING

Only one moving part. Pulley, hammers, and powerful fan all mounted on one shaft, turning on ball bearings. Hammer tips have 8 cutting edges—8 full lives. Just loosen a bolt and turn the tip to a brand new cutting edge. Case Feed Saver Hammer Mills grind fast; grind right; save time, labor, fuel; last a long time.

CASE

Just latch it on to the simple Eagle Hitch of any Case "VA" Series tractor, pick it up with hydraulic power, and whisk away to the job. Set it down and you're ready to grind—no belting up, no staking down. Send for pictorial folder; see your Case dealer, next trip to town. J. I. Case Co., Dept. L-77, Racine, Wis.

Get a Demonstration

November

Poultry pointers

New growth factor in fish meal

What may prove to be a new vitamin has been discovered at the United States Poultry Nutrition Laboratory at the Agricultural Research Center, Beltsville, Maryland. A concentrate prepared from fish solubles was found to contain a factor that promotes rapid growth in young, growing chicks, even when they are fed all the known nutrients.

The new factor is found in fish solubles, fish meal, and meat meal, the only important sources among commonly used feedstuffs. These animal by-products have been generally recommended for use in feeds for growing chickens. A search for other likely sources has revealed that the factor is made by certain microorganisms which might be suitable for commercial development.

Ventilation pays

A ventilation system in two poultry houses has paid outstanding dividends for Fred Weinrich, Olmsted County, Minnesota. The litter in both houses is bone dry, meaning fewer dirty eggs to be buffed or washed. Working conditions are much more pleasant as the air is almost free of ammonia fumes. In addition, there is no excess moisture to collect on the walls.

Visitors are impressed by the deep-dry litter they find in the laying houses. Weinrich cites this as proof that the ventilation systems are doing their work. Wood shavings are used for litter.

To help keep the litter dry, Weinrich stirs it three or four times a week and adds lime twice weekly. The waterers are placed on wire netting stretched over 30-inch wooden frames.

Weinrich sells his eggs to a local produce firm and gets 6 to 10 cents a dozen above current market prices. The firm furnishes eggs for Chicago hotels which demand quality eggs. The dry litter, therefore, is important in Weinrich's setup. A buffing machine is used to clean the dirtier eggs.—*H. S., Minnesota.*

Graded eggs below standard

Can the consumer depend on the egg grade marked on the carton? Probably not, according to a survey of eggs sold in New York food stores. Over the state, storekeepers claimed 91 percent of the eggs they had on hand were Grade A. When the eggs were inspected for quality, it was found that the average dozen of eggs offered for sale were closer to Grade B. Actual breakdown included 34 percent Grade A or better, 35 percent Grade B, 14 percent Grade C, 13 percent below grade but still edible, and 4 percent inedible. What happens to the quality?

In many circumstances, the eggs probably would not meet the grade indicated on the carton when received by the store. In other instances, poor handling or storage space caused the quality to decline while the eggs were in the store.

In any event, New York State consumers are not getting the quality of eggs which they think they are, in about two-thirds of their purchases in retail stores. This may explain why so many consumers shy away from buying their eggs in the grocery store. Rather, they buy their eggs directly from poultrymen because they believe the eggs are fresher and better.

There is an obvious need for greater enforcement of fresh-egg laws together with an educational program for producers and handlers of eggs.

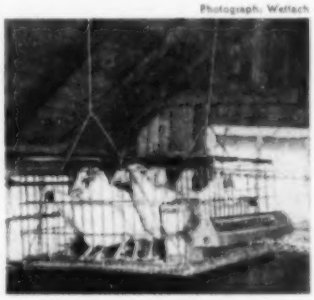
Make hens reach for water

Having trouble with hens' splashing water over the side of the waterer? Try making them reach down for their water. With their heads in this position, there is little chance for them to splash water over the side as is the case if they reach up.

Double-duty coop

The shipping coop pictured below, suspended from the rafters of the poultry house by heavy wire, is used by Art Hudachek, Muscatine County, Iowa, to hold broody hens during warm weather. The coop does not take up any floor room and helps break up broodiness by keeping birds cool.

Photograph: Weltach



Feeding and watering do not take extra work. A small feeder is wired to one side of the coop and a gallon can is wired in a corner for water. Also, the coop is used to hold birds culled during the regular egg-laying season.—*A. M. W., Iowa.*

Broilers a cash crop

Here's something for poultrymen to think about—broilers as a cash crop. They can be grown any time during the year, and no extra equipment is needed other than the regular brooding equipment, according to C. E. Ostrander of the Cornell Poultry Department.

The labor requirement, though small, depends somewhat on the type of equipment used. If a poultryman's operation is large enough to warrant using automatic

feeders, brooders, and water fountains, the labor is virtually nothing. Many farmers, however, grow a crop of broilers in colony brooders or in other buildings to utilize the brooding equipment off-season.

Ostrander says he would try to avoid having broilers for market from mid-November to January. It's the holiday season and most people are thinking of turkeys or roasters, and the broiler market is usually dull.

Care of breeding flock

Special attention given the breeding flock shows up in production, fertility, and hatchability of eggs.

Breeder management starts with blood testing of the breeding flock to remove carriers of pullorum disease, says John C. Taylor, extension poultryman at Rutgers University. No bird should be used for breeding, whether for meat or egg production, without having been pullorum tested.

Flock health begins with culling during the breeding season. A frequent check on body weight is advisable during the breeding season as a guide in feeding breeders. Leghorn pullets or hens should have an average weight of 4 pounds to qualify as breeders. Leghorn males should weigh 5 pounds and males of the heavier breeds, 7½ pounds.

In a Leghorn pen, provide 5 or 6 males to every 100 females, and in pens of heavy breeds, 6 or 7 males to 100 females. Matings should take place at least two weeks before eggs are saved for hatching.

Kill profit eaters

Chicken lice may be small, but they can take away a big part of your profits. W. N. Bruce, insect specialist in the Illinois Natural History Survey, says it has been estimated that by controlling mites a poultryman may earn an extra $36 for each $100 invested.

Either of two treatments will control all kinds of lice on the birds. Use the old pinch method with sodium fluoride or sodium fluosilicate, or spray with lindane.

With the pinch method, treat a bird with a pinch of the insecticide on top of the head, one on the neck, and two pinches on each side of the back, thighs, breast, and under the tail and wings. Both sodium fluoride and sodium fluosilicate should be handled carefully, as they are quite poisonous.

With lindane, just spray the walls, roosts, bedding, and nest boxes with a solution containing ¼ of 1 percent lindane. Use about 1 gallon to 1,000 square feet. The lindane spray also will control the common roost mite.

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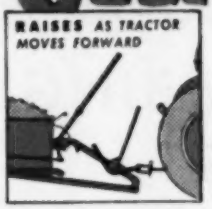
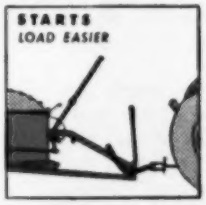


Clevis slides to drawbar height for easy hook-up, locks when hitch lifts box to raised position.



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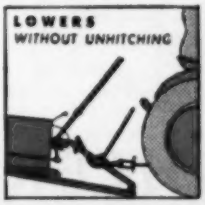

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Eight great pastures

From page 40

Look over these eight pastures—one or more fit your farming area

Alfalfa-Ladino-bromegrass

Over its best region no widely grown pasture can challenge alfalfa-brome-Ladino in pounds of milk and meat it will produce per acre. It's a rotation pasture, so don't expect it to hold up forever without reseeding. In many areas a Ladino-brome combination eventually forms, which, under good management, will resist invasion by bluegrass and other grasses.

This mixture is a heavy feeder on plant food, but money invested there will come back many times over in more forage.

A widely used seeding mixture is: 5-10 pounds of alfalfa, 1-2 pounds of Ladino, 10 pounds of bromegrass.

Here are the important reasons you ought to be considering this great mixture if you live in the above mapped area: Not unusual for it to produce 500 pounds of gain per acre in one year. High in protein; will save 30 to 40 percent of the protein supplement needed for fattening hogs. Reasonably easy to seed—brome needs to be drilled for an even stand. Can be held a number of years under proper grazing and fertilization. Other uses—hay, grass, silage, brome seed. Benefits succeeding crop of corn with improved soil tilth and nitrogen.

Here are reasons why you may *not* be able to take advantage of this great pasture mixture: Another pasture may be more productive with your climate, soil type, drainage. You may need a more permanent mixture.

Orchard grass-alfalfa-Ladino

Orchard grass will supply a good grass content in a legume mixture—*throughout the season.* This is crucial where Ladino

or alfalfa is being pastured. Case after case of bloat has been blamed on insufficient grass with legumes.

Orchard grass generally is preferred to brome in mixtures with Ladino and alfalfa in a broad band just south and east of the brome region. It usually is seeded at 4 to 8 pounds per acre in mixtures.

Here are other reasons you should be using orchard grass-Ladino-alfalfa: Production nearly equals brome-alfalfa-Ladino's—is higher in its best adapted area. It is a long-lasting, rotation pasture. It thrives better on poorer soils than brome-alfalfa-Ladino, though for best results it needs high fertility.

Birdsfoot trefoil-permanent grass

Birdsfoot is a new answer to an old problem—the need for a permanent pasture legume. Iowa State College tests last year running from May 16 to August 31 showed beef gain of 188 pounds per acre for birdsfoot-bluegrass against 70 pounds for straight bluegrass.

Ten-year-old stands all the way from New York to Iowa—stronger today than when seeded—prove that once established it can hold its own in permanent pastures. It can tolerate low fertility and acid soils which it often encounters in rough, permanent pastureland. Birdsfoot trefoil has never been known to cause bloat.

Seed 4 pounds per acre in ripped-up, closely grazed sod. Inoculation is *vital* step.

And then here are reasons you may not be able to use it: It is difficult to establish in some soils. Why? Partly inoculation, other reasons we don't know. Seed is expensive and sometimes hard to obtain (start with a small patch in one corner of a pasture).

Native short grasses

Range, unlike the preceding pastures, is not a matter of choice. It's more a matter of taking care of what you've got. Sayings such as this sum up native-grass management: "Graze half and leave half, and the half you leave will grow larger."

One thing you can do: In a 10-year Wyoming test it was found that pasture seeded to cool-season grasses carried

[*Turn to page 118*

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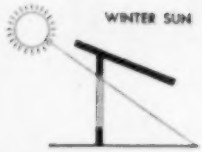
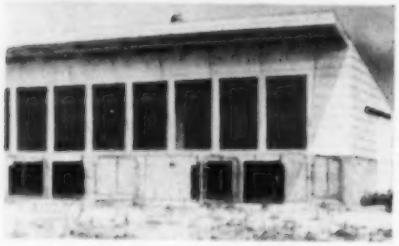


TURN SUNLIGHT ON AND OFF . . . These diagrams show how an overhang shades the windows from the high summer sun — but admits the winter sun which is lower in the sky.



Hog house located at Michigan State College, East Lansing.

NEW HOG HOUSE...uses winter sun for warmth and sanitation

Large windows face south to bring in winter sun. Solar heat and the sun's germicidal effect together produce an ideal environment for farrowing. It makes possible the use of a central farrowing house, with consequent labor saving.

More winter sun and animal heat are kept *in* this hog house by the use of *Thermopane** insulating glass. This is an especially important feature during cold nights. *Thermopane* cuts in half heat loss through glass. It reduces condensation on the glass, thus keeping windows cleaner to admit more sunlight.

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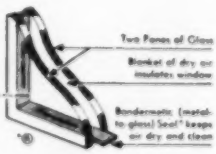

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Eight great pastures

From page 117

twice as much livestock as the unimproved native pastures which consisted mostly of warm-season grasses.

Western wheatgrass, Canada wild ryegrass, and crested wheatgrass are cool-season grasses well adapted to both northern and southern Great Plains. They can be introduced to good native ranges. If undesirable grasses predominate, your best bet will be to rip up and reseed, *including the best warm-season grasses*, the gramas, bluestems, and buffalo grass.

Coastal Bermuda grass

In the South it's Coastal Bermuda for a long-season pasture. At the Georgia Coastal Experiment Station, it has produced as high as 692 pounds of beef per acre. You can afford to apply the 60 pounds of nitrogen it needs annually to get that kind of returns. Yields of 10 tons of hay per acre with a protein content as high as 14 percent have been made on $50 pastureland.

Here are other reasons you should use it: It is a permanent grass producing from April to October 2. It withstands drouth. Coastal Bermuda resists leaf diseases and nematodes better than common Bermuda. It can be seeded to reseeding crimson clover in fall for winter pasture.

Here are some disadvantages: It must be transplanted—no seed is produced. It requires well-drained soils. Coastal Bermuda requires high fertilization, especially nitrogen, and it crowds out legumes which might otherwise provide nitrogen.

Tall fescue-Ladino

A lively argument goes on as to whether livestock like the tall fescues—alta and Kentucky 31—but one thing about them makes it important that you consider them in your pasture program—they provide *great winter pasture*. In South Carolina, fescue-Ladino pasture often must be clipped around the first of the year to keep it in grazing condition. In Missouri near the northern limit of fescue, livestock can graze it into December and be on it again in March or April. A profitable seed crop is often combined in late June,

after which the fescue is allowed to grow back for fall and winter grazing.

In the South, the preferred method is to drill the seed into a firm seedbed in the fall at the rate of 6 to 8 pounds of fescue and 1 pound of Ladino. Added phosphate or potash, if low in the soil, will keep the fescue vigorous and feed the clover, which in turn will produce nitrogen.

Annual top-dressings of phosphorus and potassium also pay dividends in maintaining the stand.

Crimson clover

Crimson clover is the South's *No. 1 winter legume*. It will produce an abundance of forage, particularly in early spring. More recently it has been found that farther south it can be successfully seeded in Coastal Bermuda, Johnson, and Dallis grass pastures. Thus it gives two winter-pasture crops off otherwise dormant pasture. To do this, clip grass close, harrow lightly, and seed 15 to 20 pounds of clover in early fall.

Here are other reasons you should be growing it: Versatile—can be used for hay, green manure, or seed, besides pasture. Produces abundant seed (250 to 1,000 pounds of seed). Grows abundantly on most soils within its climate range if plant food is available.

Reed canary grass

Where land is too wet for anything else and not worth draining, we relegate reed canary grass—*but in such a spot nothing else compares with it.*

Its palatability is questioned, but some tests have placed it above Kentucky bluegrass. And despite its wet-land reputation, it has been found to be more productive and drouth-resistant than brome and timothy. While it readily smothers any legume seeded with it, it can be managed by clipping to maintain a stand of Ladino clover in combination.

We may see more of reed canary grass in the future, but for the present you need it on: land subject to long periods of standing water. Land subject to heavy silting. Seep spots.

Seed 5 to 8 pounds of seed per acre at a time when a reasonably good seedbed can be prepared.

Everything you need to take a soil sample—except the spade: ● Instruction folder: *"How To Take A Soil Sample"*; ● Four containers for shipping your soil; ● Soil Sample Information Sheets as approved by your own state, **plus** latest information on soil fertility from your own state, no matter where you live. This unusual free offer is good only while a limited supply of soil test sampling kits lasts. So be sure to tear out the coupon at the bottom of this page *now*.

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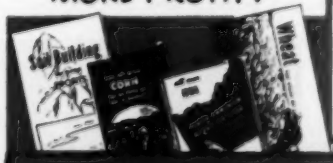

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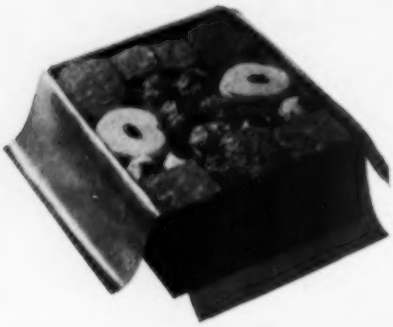


wrapped for mailing

in your cooky jar

When you mail cookies in a cardboard box, line it with waxed paper. Then place a sheet of cardboard and several layers of waxed paper between the layers to keep the cookies from getting broken

By Elizabeth Page

Now is the time when you parents will start getting letters from guys and gals away at college or in the Army begging for a box (a big one) of Mom's homemade cookies. Anyone away from home for the first time can testify that there's nothing like home cooking to cure a bad case of homesickness.

There will be no disappointments with broken or stale cookies if you use the recipes given here and follow the packaging and wrapping tips. These recipes have all been tested for how well they keep and, equally important, for how good they taste. Cookies that keep plus proper wrapping will insure oven-fresh cookies when they reach their destination.

But don't neglect the stay-at-homes. They appreciate Mom's homemade cookies, too. If you like to bake a big batch of cookies every two weeks, instead of smaller batches more often, you'll find these cookies will stay fresh between baking days. [*Turn to page 122*

Photographs: Photography, Inc.

Wrap each cooky separately in waxed paper or in moisture- vaporproof cellophane. This keeps the cookies from drying out, shifting, and breaking while they're being mailed

For a metal container, crumble or cut waxed paper in shreds and spread it over the bottom of the box for a cushion. Aluminum foil also works well for wrapping cookies

Unbuttered, unsalted popcorn works well to fill up the empty spaces in a cardboard box. It helps keep cookies from breaking and adds very little weight to the package

"There is NOTHING like my Vichyssoise!"

"OH, NO? Have you tasted my Onion Soup?"

MRS. MARTIN'S ONION SOUP

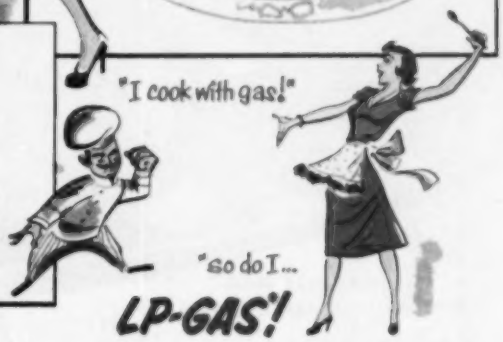
4 large onions, sliced very thin
2 tablespoons butter
4 cups brown stock
4 circles hard, buttered toast
½ cup dry, grated Parmesan cheese

Brown onions slightly in butter; add stock and cook 30 minutes. Place toast in heated soup bowls; pour soup over and sprinkle with cheese. Canned consommé may be substituted for brown stock. Serves 4 to 6.

VICHYSSOISE PIERRE

4 leeks, slice fine (use white part only)
1 medium onion, sliced fine
5 medium potatoes, sliced
1 quart chicken broth
2 cups milk
2 cups medium cream
1 cup heavy cream
2 tablespoons butter

Cook onion and leeks together in butter. When they begin to be translucent (not browned), add sliced potatoes and chicken broth. Add salt to taste. Boil 35 minutes. Rub through sieve. Return purée to the fire and add 2 cups milk and 2 cups medium cream. Cool. When cold, add 1 cup heavy cream, chill. Serves 8.



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"Quaker Oats makes meat loaf go farther and taste juicier"

says *Mary Alden*,
Director of Home Economics
The Quaker Oats Company

CUT MEAT BILLS WITH NOURISHING QUAKER OATS!

- ✓ Yes, protein-rich Quaker Oats stretches 1 lb. of meat from 4 servings to 6.
- ✓ Holds in meat juices so you have moist, juicy, more delicious meat loaf.
- ✓ Quaker Oats provides as much nourishing protein, ounce for ounce, as do many cuts of meat.
- ✓ Convenient! No crumbs to bother with.

Quaker and Mother's Oats are the same

JUICY MEAT LOAF
(6 Servings)

1 lb. ground beef
½ cup *uncooked* Quaker or Mother's Oats (quick or old-fashioned)
1 beaten egg
¼ cup chopped onion
1½ teaspoons salt
¼ teaspoon pepper
⅔ cup tomato juice

1. Combine all ingredients thoroughly; pack firmly into a loaf pan.
2. Bake in moderate oven (350°) 1 hour. Let stand 5 minutes before slicing.

Other Meat-Stretching Recipes

DINNER HAMBURGERS: Use Meat Loaf recipe above, omitting beaten egg. Combine ingredients thoroughly. Shape into 6 dinner hamburgers; chill. Pan-fry in hot fat and serve sizzling hot.

MEAT BALLS: Use Meat Loaf recipe above, omitting beaten egg. Shape combined ingredients into 12 meat balls; roll in flour; then brown in hot fat. Add tomato sauce; simmer 20 to 25 minutes.

MOCK DRUMSTICKS: Use Meat Loaf recipe above, omitting beaten egg. Shape combined ingredients into 6 drumsticks. Insert a wooden skewer into each drumstick; chill. Roll in bread crumbs. Brown on all sides in hot fat; cover; cook slowly 10 min. longer.

Cookies that keep

From page 120

For further safe travel, wrap the box of cookies with stout cardboard before putting on the wrapping paper, labels, and cord

Mark package "Fragile—handle with care." Tie it securely with strong cord—with two crosswise and lengthwise pieces

Party Macaroons

Makes about 32

Cream . . . ¼ cup butter
Add . . . . . ⅔ cup brown sugar
⅓ cup granulated sugar
Cream together until light and fluffy.
Beat in . . . 1 egg
Mix in . . . ½ cup chopped nuts
1 cup shredded coconut
3 cups corn flakes
Shape into balls by pressing mixture by teaspoonfuls against bowl.
Bake on greased cooky sheet at 350° for 12 to 15 minutes.
Let stand after removing from oven.

Date Bars

Makes 32

Combine 3 beaten eggs
1 cup sugar
1 teaspoon vanilla
¼ cup melted shortening
Blend well.
Sift together:
1 cup sifted flour
1 teaspoon baking powder
¼ teaspoon salt
Combine with egg mixture; blend well.
Stir in . . . 1 cup chopped dates
¾ cup chopped pecans
Pour into 13x9x2-inch pan.
Bake at 350° for 20 to 25 minutes.
Cut into squares when cool.

Oatmeal Crispies

Makes 3 dozen

Heat together to melt shortening:
- **½ cup seedless raisins**
- **½ cup shortening**
- **¼ cup water**

Cool.

Sift together:
- **¾ cup sifted flour**
- **½ teaspoon soda**
- **½ teaspoon salt**
- **¼ teaspoon cinnamon**
- **¼ teaspoon nutmeg**

Stir in . . . **1½ cups quick oatmeal**
- **1 cup brown sugar**
- **½ cup nuts**

Add . . . . . **raisin mixture** and
- **1 teaspoon vanilla**

Chill until stiff. Drop from teaspoon on greased cooky sheet.

Flatten with waxed-paper-covered glass.

Bake at 350° (moderate) for 12 to 15 minutes.

Mint Surprise Cookies

Makes 4 dozen

Cream . . . **1 cup shortening**
- **1 cup granulated sugar**
- **½ cup brown sugar**

Add . . . . . **2 eggs**
- **2 tablespoons water**
- **1 teaspoon vanilla**

Beat well.

Sift together:
- **3 cups sifted flour**
- **1 teaspoon soda**
- **½ teaspoon salt**

Add to shortening mixture and mix thoroughly.

Chill about 2 hours.

Enclose . . **chocolate mint wafer** in about 1 tablespoon chilled dough for each cooky

Place on ungreased baking sheet about 2 inches apart.

Crush . . . . **½ cup corn flakes** into fine crumbs

Sprinkle over cookies.

Bake at 375° (moderate) for 12 minutes.

Butterscotch Refrigerator Cookies

Makes 4 dozen

Cream together until light:
- **½ cup butter** or **margarine**
- **1 teaspoon vanilla**
- **1 cup brown sugar**

Add . . . . . **1 well-beaten egg**

Sift together and add to above mixture:
- **1½ cups sifted flour**
- **1½ teaspoons baking powder**
- **¼ teaspoon salt**

Add . . . . . **½ cup chopped walnuts**

Place on waxed paper and form into roll (1½ inches in diameter).

Roll it up in waxed paper.

Chill for several hours or overnight.

Slice with a sharp knife into ⅛-inch-thick slices.

Place on ungreased cooky sheet.

Bake at 400° (hot) for 8 to 10 minutes until lightly browned.

[*Turn to page 124*

Start right finish LIGHT!

Count on Calumet to Make It Luscious-Light!

CARAMEL-FROSTED WINTER-WHITE CAKE

A Product of General Foods

- **2 cups sifted Swans Down Cake Flour**
- **2½ teaspoons Calumet Baking Powder**
- **¾ teaspoon salt**
- **3 egg whites**
- **¼ cup sugar**
- **½ cup shortening**
- **1 cup sugar**
- **1 cup minus 2 tablespoons milk**
- **1 teaspoon vanilla**

Note: To *insure* this handsome cake of snowflake-light texture, be sure to use CALUMET Baking Powder. Double Acting CALUMET lifts and lightens both in the mixing bowl *and* in the oven's heat. Once you try it, you'll see why twice as many women use CALUMET Baking Powder as any other brand . . . for cakes, biscuits, muffins and other baked treats!

Method. Sift flour once, measure, add CALUMET Baking Powder and salt, and sift together three times. Beat egg whites until foamy, add ¼ cup sugar gradually, and continue beating only until meringue will hold up in soft peaks.

Cream shortening, add 1 cup sugar gradually, and cream together until light and fluffy. Add flour, alternately with milk, a small amount at a time, beating after each addition until smooth. Add vanilla; blend. Then add meringue and beat thoroughly into batter.

Baking. Pour batter into two round 8-inch layer pans, 1¼ inches deep, which have been lined on bottoms with paper. Bake in moderate oven (375°F.) 25 minutes, or until done. Cool. Frost with Quick Caramel Frosting.

Quick Caramel Frosting. Melt ½ cup butter in saucepan. Add 1 cup firmly packed brown sugar; cook over low heat 2 minutes, stirring constantly. Add ¼ cup milk; bring to a boil. Remove from heat and cool. Add about 2 cups sifted confectioner's sugar gradually, beating well.

DOUBLE-ACTING Calumet BAKING POWDER

Touch Cool

Keep WARM without WORRY!

DVRCK-65

This winter enjoy heating comfort as you like it—where you want it—at lowest possible cost—*and* without worry. See your Dearborn dealer soon—take a look at the new "Touch-Cool"

Dearborn®
Guard-O-Matic
GAS AREA HEATERS

The only vented, radiant, circulating heaters with TOUCH-COOL CABINETS

TOP—so cool you can grow potted plants on it.
SIDES—so cool toddlers won't burn careless fingers.
ALL-OVER SAFETY for your furniture, rugs and walls.
DEARBORN'S NEW LOUVER DESIGN circulates all heat from the front—no streaked walls—no soiled ceiling—yet quicker—more even—more comfortable heat.
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AVAILABLE IN 30,000 45,000 AND 65,000 BTU INPUT CAPACITY MODELS

Approved by American Gas Association for use with all types of gas

DVRCK-30

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- Amazing Touch-Cool cabinet—top, bottom, sides never hot to the touch.
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I'd like to know more about area heating. Please send me a free copy of your booklet, "The Story of Area Heat."

Name _____
Address _____
Town _____ State _____

Cookies that keep

From page 123

Corn-meal Cookies
Makes 6 dozen

Cream . . . **1 cup butter**
Add . . . . . **1½ cups sugar,** gradually
Cream well.
Beat in . . **2 eggs** until light and fluffy
Add . . . . . **1 teaspoon lemon extract**
Sift together:
3 cups sifted flour
1 teaspoon baking powder
½ teaspoon salt
1 teaspoon nutmeg
Stir in . . . . **1 cup yellow corn meal**
Add to creamed mixture, mixing thoroughly.
Roll dough to ⅛-inch thickness on lightly floured board.
Cut with 2½-inch cooky cutter.
Place . . . . **raisin** in center of each cooky
Bake on greased cooky sheet at 400° (hot) for 8 minutes.

Festive Cherry-ettes
Makes 2 dozen

Blend together:
6 tablespoons shortening
2 tablespoons butter
½ teaspoon salt
¼ cup sifted confectioners' sugar
1 tablespoon vanilla
Add . . . . . **1 cup sifted flour**
½ cup chopped pecans
Mix into soft dough.
Measure out level tablespoon of dough.
Roll into ball with hands.
Place on ungreased cooky sheet.
Press . . . . . **candied cherry half** into center of each cooky
Bake at 325° (slow) for 25 minutes.

Honey-Pecan Squares
Makes 16

Sift together:
⅔ cup sifted enriched flour
½ teaspoon baking powder
⅛ teaspoon soda
¼ teaspoon salt
Cream together:
⅓ cup butter
¾ cup honey
¼ cup sugar
Blend in **2 1-ounce squares unsweetened chocolate,** melted
2 beaten eggs
½ teaspoon vanilla
sifted dry ingredients
1 cup chopped pecans
Spread in greased 9-inch square pan.
Bake at 325° (slow) for 30 minutes.
Cut into squares when cool. **END**

Do you have a favorite housekeeping short cut? *Successful Farming* pays $5 for each suggestion published. Send your hints to: All Around the House, *Successful Farming*. The unused suggestions cannot be returned.—Editors.

Napkin holders you can make

Here's a quick and clever way to make napkin holders for any occasion. Your guests will want to take them home for souvenirs—and well they may, for they are unusual though inexpensive to make.

Cut a strip of construction paper 7x2 inches for each holder. One-half inch from the right end of this strip, make a cut from the bottom to the middle of the strip. One-half inch from the left end, cut to the middle from the top of the strip. Paint a design, name, date, or other decoration between these two cuts.

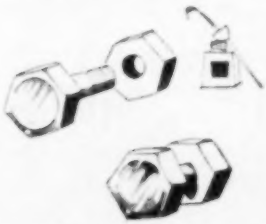
To close the holder, simply slide the two cut ends together. They will lock. Insert the napkin in the ring and you've a fine addition to your party table.

A trick for teens

A pair of bolts and nuts may be just what you have been needing for that white blouse with French cuffs! Sound impossible? Not if you know how to turn them into attractive metal cuff links.

Select two bolts and nuts which will fit your cuff. Small sizes look best, I find. Using either oil paints or nail polish, cover the pieces in a color that will harmonize with your skirts. Coat with clear fingernail polish so the paint will not chip. Clear nail polish over the plain metal gives an attractive finish, too.

To wear, insert a screw in set of buttonholes and turn the nut until it closes the cuff. Try this and see if your teen-age friends don't follow suit.—*Mrs. L. S., Minnesota.*



Finds long-keeping Dry Yeast more convenient

Young Mother Wins Top Cooking Awards

Little Patricia is proud of the ribbons her mother has won in two years of cooking competition. Mrs. Helen Hunter, of Imlay City, Michigan, won a first prize at 1951's Michigan State Fair—and she has walked away with top awards at the Lapeer County Fair for two years now.

Like so many cooks, Mrs. Hunter depends on Fleischmann's Active Dry Yeast. "It's the easiest yeast ever," she says. "Keeps for months on my pantry shelf."

You can't beat this grand Dry Yeast—it's so much more convenient than old-style perishable cake yeast. Stays fresh for months at a time. When you bake at home, use yeast. And use the best—Fleischmann's Active Dry Yeast. It's the easiest ever—1 package equals 1 yeast cake in your favorite recipes.

"Double Up" for Window Beauty

Now hang both your draw draperies and your shirred or pleated valance on *one* fixture—this JUDD combination with an inner traverse track and outer curtain rod on the *same* bracket. Draw curtains open full width or close with generous overlap; valance conceals drapery track at all times.

Perfect Pleats in Minutes with Judd PLEATMASTER®

Yes—any women can make decorator-perfect, full-heading pinch or box pleats in drapes or valances, easily, in a matter of minutes, with Judd Hooks and Tape. No tricky measuring, no intricate stitching. Buy tape by the yard, hooks in any desired quantity; or get handy kit containing hooks and tape for complete 10-pleat pair of drapes. Hooks have smooth plastic tips for easy insertion. But be sure you get the *original* Judd PLEATMASTER. At drapery departments or variety store.

Get this new Judd book of smart, easy, modern window treatments. Send 15¢ in coin.

JUDD decorator-styled Drapery Hardware

H. L. JUDD COMPANY • DEPT. SF • WALLINGFORD, CONN.

The PLAY

Where Playfellows

Rusty's Gift

All of Mother Song Sparrow's children were happy sparrows. All, that is, except Rusty, who envied other birds.

"I wish I had a fine coat like Mr. Blue Jay," he would grumble. "I am so plain in my brown coat streaked with black and rust, and with this silly-looking little black bib on my chest. Why couldn't I . . ."

"Mr. Blue Jay has an ugly temper," his mother would answer. "His voice is just a shrill scream. You have something much better."

"What is it?" Rusty asked eagerly.

Mother Sparrow smiled and made a rhyme: "Listen to me, and wait and see."

Not long after that, Rusty spied Mr. Ruby-throated Hummingbird sipping nectar from a flower. "Oh, what a beautiful bird!" cried Rusty. "I want to be a hummingbird, too!"

"Hummingbirds fly far away into Mexico each winter. Yet you have a gift denied to the hummingbird," said Mother Sparrow.

Again Rusty asked what was the sparrow gift, but his mother refused to tell. Rusty pouted, flew to the other side of the orchard, and began wishing that he were a robin. Robins flew south in the winter and Rusty thought it would be no fun at all to be a stay-at-home sparrow.

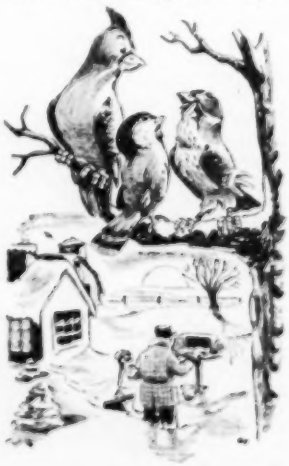
"Robins are nice birds," his mother said, "but you are dearer to the farmer. You have something the robin does not."

"What? What?" cried little Rusty.

"You shall know, when we have snow," was his mother's only reply.

Autumn passed. The larks and thrushes were all gone. Rusty made friends with a cardinal and a chickadee. The farmer put out grain for all of the birds. And then one day a soft, white snow covered the ground and the evergreen trees.

"How lovely!" Rusty exclaimed, and



HOUSE®

meet every month

he flew to the top of the nearest tree and began to sing a golden melody.

"Now you know your gift," said his mother. "All year round you love to sing and your beautiful song shall brighten the long, cold winter for our friends in the North."

Order, please! Where are the numbers from one to ten always found in this order: eight, five, four, nine, one, seven, six, ten, three, two?

Answer: In the dictionary.

Thanksgiving menu. Besides the turkey on your Thanksgiving Day table, there will be many other dishes. The 12 words below represent foods you might find on your holiday table. To discover what they are, fit them, one at a time, into the lines of blanks that follow. You will add one letter from the word "Thanksgiving" in each case and rearrange the letters of every starting word. For instance, the first word "sun" becomes "nuts" when fitted properly into the first line of blanks.

1. *sun;* 2. *ireless;* 3. *lads;* 4. *sub;* 5. *ace;* 6. *rested;* 7. *vary;* 8. *tuf;* 9. *ale;* 10. *loves;* 11. *base;* 12. *reign.*

```
      _ _ T _
_ _ _ _ _ H _ _
      _ A _ _ _
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        G _ _ _ _
  _ _ _ I _
        V _ _ _
    _ _ I _ _ _
  _ _ _ N _
  _ _ _ G _ _
```

Answers:
1. nuts; 2. relishes; 3. salad; 4. buns; 5. cake; 6. dessert; 7. gravy; 8. fruit; 9. veal; 10. olives; 11. beans; 12. ginger.

There are bells of many tones and many kinds and uses. How many of these common ones can you name? Which bell . . .

1. Starts ringing in the fall?
2. Is a flower?
3. Is cracked but widely known?
4. Announces a visitor?
5. Calls people to worship?
6. Was the inventor of the telephone?
7. Is a welcome sound at mealtime?
8. Is a stupid person?
9. Announces a marriage?
10. Invites us to talk?

Answers: 1. School bell; 2. Bluebell; 3. Liberty Bell; 4. Doorbell; 5. Church bell; 6. Alexander Bell; 7. Dinner bell; 8. Dumbbell; 9. Wedding bell; 10. Phone bell.

The difference between this...

and this...

is often this...

For You to Plant in '53
The Best Seed Corn We Ever Produced

Funk's G-Hybrid seed corn for delivery next spring is—on the average—our best matured and finest quality crop in history. Sound, plump, lustrous bright kernels of remarkable uniformity and finish are in the bag. Safely protected inside every kernel are the famous bred-in Balanced 5-Star Qualities to help you make a top yield of quality corn next year.

In most Funk's G-Hybrid seed production fields, favorable weather, carefully-chosen fertile land and added fertilizer pushed the seed crop right along. Many of our plants were drying seed ears ten days to two weeks earlier than usual. Added drying capacity helped, too—and this year the seed crop was safely dried earlier than ever before.

YOU CAN'T BEAT THIS: Nearly 35 years of hybrid corn research to improve G-Hybrids by breeding and testing on a nation-wide scale . . . Plus highest quality seed processed early and carefully—that's the combination you can depend on for top yields of quality corn next season.

YOUR DEALER is ready to take your order now for adapted Funk's G-Hybrids. Nearly 80 different varieties to suit every farming need and every maturity. So—get going with Funk's G—

Balanced PERFORMANCE
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Consistently Good
YEAR AFTER YEAR

AND BETTER THAN EVER FOR 1953

FUNK BROS. SEED CO.
BLOOMINGTON, ILLINOIS
And Associate Producers of Funk's G-Hybrid Seed Corn

Cannibalism

From page 46

oats feeding is a good remedy. Another good feeding tip is to provide ample dry-mash hopper space and keep the hoppers full.

Cannibalism often starts after several cases of prolapsus have broken out. Prolapsus is a condition which develops when the ligaments of the oviduct are weakened by the strain of laying, causing the oviduct and cloaca to evert through the vent. When the vent becomes red, the birds begin picking the exposed part. When this picking habit begins, the birds are on a constant watch for new victims.

The first thing to do is find the ringleaders and remove them. Paint the injured parts with commercial "chick-pick" or pine tar. Also paint some unpicked pullets to be sure the birds get a taste or smell of this medicine quickly.

At the Washington Experiment Station, researchers found that spraying the windows with red lacquer and using red bulbs, 60 to 100 watts, with reflectors to throw the light down, was a good remedy. For best results when using red lacquer, it is necessary to have a well-lighted room with windows on at least three sides.

Salt in the drinking water, 1 tablespoon to a gallon, is the Wisconsin Experiment Station's suggestion for a cure.

If this cannibalistic tendency becomes serious in the flock and is in an advanced stage, debeaking or "tipping" may be the only answer. This will check picking for 4 to 5 weeks and interferes only slightly with eating. In this method, a cut about ¼ of an inch from the tip of the upper beak should be made with a sharp knife; then the tip should be held between the knife and thumb and torn off down to the quick.

Poultrymen today also use mechanical devices such as "pikgards" and "specs" to control cannibalism. The "specs" are a pair of blinders fastened to the beak by a cotter pin which passes through the nostrils. When "specs" are worn, birds can

[*Turn to page 130*

The coolie way of building roads is hard on men —

The American Way

is tough on machines and "Your Unseen Friend"

As the poet said, the East and West shall never meet . . .

Not when it comes to road building anyway! For where the East *inches* a road along, the West (America) "spurts it out" . . . by the mile.

Where the East drives its men, America drives its machines. And, with "Your Unseen Friend's" help, builds roads at tremendous speeds.

Take this big earth-mover, for example.

Called a scraper, this fast-moving "pan" is a rugged "jack-of-all-trades." Scraper, loader, dump truck, it can scrape, load, haul, and spread about 900 wheelbarrow loads an hour . . . shift after shift, day after day.

A dependable work horse, this giant! Designers saw to that when they used Nickel-containing steels and Inco-developed *Ductile Iron* in many vital parts.

There are tough, strong, shock- or wear-resisting Nickel-containing steels in stressed members of the scraper; in gears and axles; in critical parts of the tractor unit that keeps this big behemoth on the go. And, in many cases, winch drums are made of *Ductile Iron!*

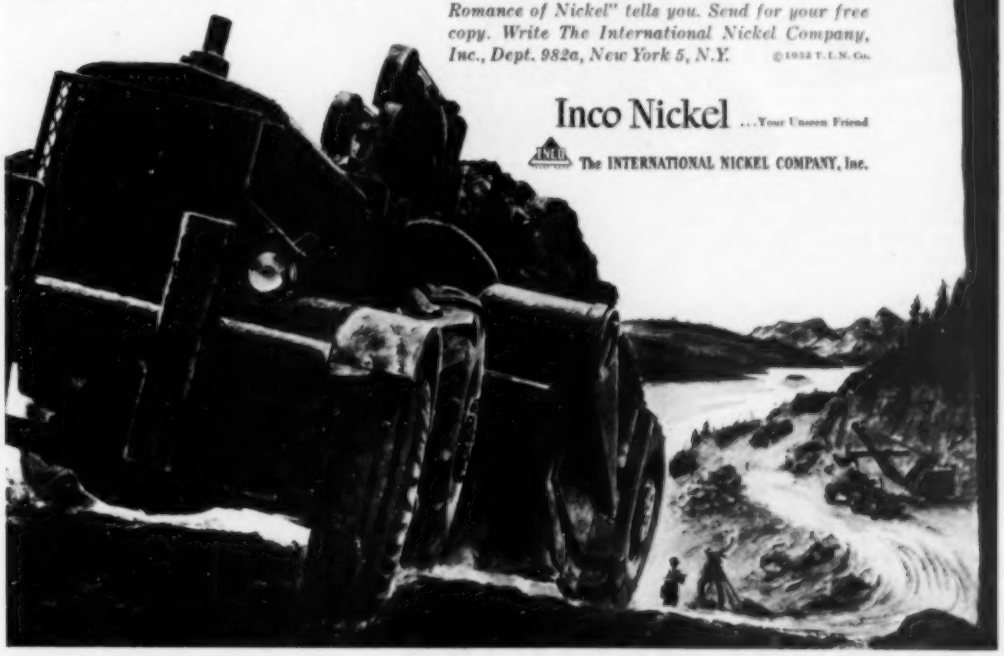
With the powerful push of such mechanized equipment, America has today more than 1,617,000 miles of surfaced rural roads alone. In 1900, there were only about 150,000.

In performing this miracle, road builders have had many a helping hand from Inco Nickel. Like you, though, they rarely see this friendly metal because it's usually intermixed with other metals to add toughness, hardness, or other special properties. That is why Inco Nickel is called "Your Unseen Friend."

You and "Your Unseen Friend": *morning, noon and night, Inco Nickel is always with you—helping to make your life easier, brighter, more pleasant, more worthwhile. Just how? "The Romance of Nickel" tells you. Send for your free copy. Write The International Nickel Company, Inc., Dept. 982a, New York 5, N.Y.* © 1952 T.I.N. Co.

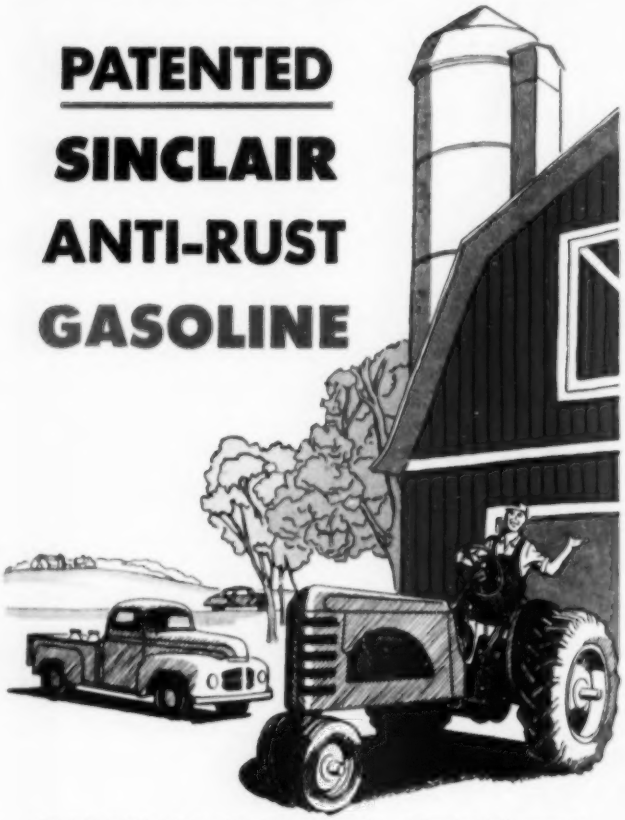
Inco Nickel ...Your Unseen Friend

The INTERNATIONAL NICKEL COMPANY, Inc.



SENSATIONALLY DIFFERENT!

PATENTED SINCLAIR ANTI-RUST GASOLINE



Sinclair Anti-Rust Gasoline goes *further* than delivering full power to gasoline engines. *Regular use of it effectively stops costly rust and corrosion in fuel systems.* Only Sinclair can do this for your car, truck and tractor – because only Sinclair contains the amazing rust inhibitor RD-119®.

This revolutionary gasoline, so different that it has been granted a U. S. Patent, can save you costly repairs – and time and trouble, *too.*

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SINCLAIR OPALINE®
SINCLAIR PENNSYLVANIA

SINCLAIR ANTI-RUST GASOLINE

Cannibalism

From page 128

see only up and down, not straight ahead. However, colds may be caused by this blockage of the nostrils.

The "pikgard" is a light counterweight shield which fits over the beak. Small brass pins that pass through the nostrils hold it in place. When the bird is eating, this guard swings away.

Both these devices may cause a drop in production until the birds become adapted to them. The feeding and water supply should be given special attention till the birds get used to them, because they may easily get caught in the feeders. Troughs should be used, as the birds will have difficulty picking the grain up off the floor.

Electric debeaking has recently been introduced by the University of California and found very successful. Here one-fourth of the upper beak is removed by an electrically heated knife. Many may think this is a drastic measure and will affect the egg production. However, tests made at the Cornell University Poultry Department have proved otherwise. The tests showed that the birds ate about the same amount of feed before and after the debeaking and that egg production remained the same. Debeaked birds were quieter and wasted less feed. Effects of the debeaking operation were found to last from 4 to 5 months.

The important thing is to catch cannibalism early. By using some of these simple solutions you should be able to nip it in the bud, or even prevent it in the first place. **END**

Trace elements...

still adequate in Illinois soils

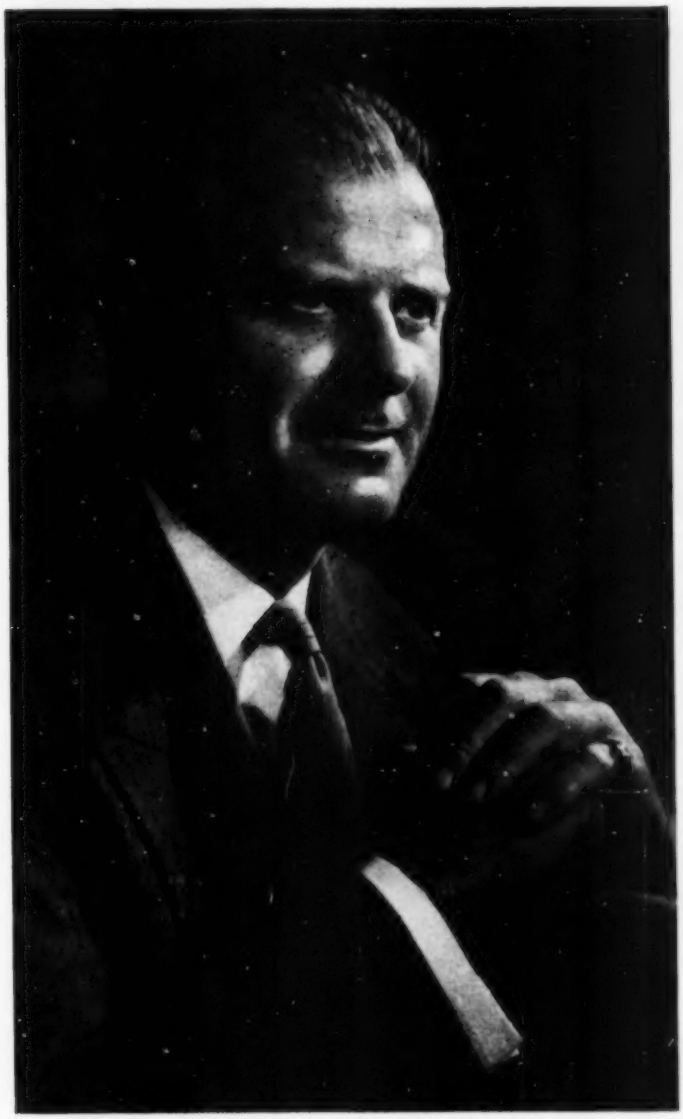
Illinois soils seem to be pretty well balanced as far as the trace elements are concerned.

The soil-test laboratory at the University of Illinois reports that, with the exception of boron and magnesium, no marked deficiencies of trace elements have been found in the soil samples which it has tested.

Boron deficiencies are occurring in some of the samples of sandy soils and are very evident on the flat, poorly drained soils in southern Illinois. A boron deficiency usually shows up quickest in soils planted to alfalfa.

Although no completely satisfactory test for magnesium has been developed, the soil-test laboratory does not feel that magnesium deficiency in most Illinois soils is a problem at the present time.

"When is a man 'life insurance poor'?"



KARSH, OTTAWA

A NORTHWESTERN MUTUAL POLICYHOLDER. *Mr. Adams bought his first life insurance with this company 24 years ago while working as an accountant for the firm he now heads. Today he owns thirteen Northwestern Mutual policies.*

A message of interest for everyone who owns life insurance

by **KENNETH S. ADAMS**

Chairman of the Board

Phillips Petroleum Company

"OCCASIONALLY you hear a man say that he is 'life insurance poor.'

"To feel this way at times is understandable. There will always be many ways of spending money, and some that seem more enjoyable than others.

"Usually, though, our sense of true values sooner or later tells us that the payment of life insurance premiums is, in reality, *saving*. And the man who may say he is 'life insurance poor' is likely in the next breath to tell you with pride how well he has provided for the security of his family, as well as for his own retirement.

"Actually the only way to be 'life insurance poor' is *not to have enough*. And that is a 'poverty' that can hurt.

"How much is enough? The answer comes with a square, clear look at our individual needs and circumstances. For myself, I have always found that right here is where an experienced life insurance agent can be of particular assistance."

★

HOW THE NORTHWESTERN MUTUAL AGENT PREPARES TO SOLVE YOUR PROBLEMS

By character, ability, and training, Northwestern Mutual agents are well qualified. Many—a greater proportion than in any other company—have earned the designation of Chartered Life Underwriter.

The company they represent has 95 years' experience. It is one of the six largest. It accepts applications only through its own agents.

And so important are the advantages to policyholders, including low net cost, that nearly half the new life insurance issued goes to present customers.

For a thorough review of your life insurance program, call upon a Northwestern Mutual agent.

The NORTHWESTERN MUTUAL *Life Insurance Company*

MILWAUKEE, WISCONSIN

Versatile jacket makes extra suit . . .

For town wear, to church and club meetings, Jan makes a smart little suit by topping her cotton tweed skirt with velveteen shortie. Her skirt, Advance Pattern 6163

. . . a style-plus evening wrap

Jan finds this little topper just right to wear over her cotton lace formal for the holiday parties. The dress is Advance Pattern 5660

Build a wardrobe around a Jacket

No ordinary jacket, this popular "shortie" requires little skill and only an evening to make. But most important, it's a jacket with a future! Stitch it in velveteen, for instance, and watch it turn a basic dress into a costume. Add it to favorite skirts for a fashion-book suit. Here's the most style-conscious jacket we know. It's casual, dressy, and in-between, too.

Our model, lovely Jan Rasmussen, a young Union County, South Dakota, farm wife, gives her stamp of approval to this versatile pattern.

. . . a topper for basic dress

This jacket lends a special high-style touch to Jan's simple gray wool dress. Her basic dress is made from Advance Pattern 6168

Back views of these Advance Patterns, page 134

Photographs: Pease

It's neat and attractive...

quick and convenient...

and it's yours FREE*

when you buy the dollar size

Jergens Lotion! *(Both only 98¢ plus tax)*

Slip this tidy dispenser into a Jergens Lotion bottle in place of the cap, and you've a spill-proof *beauty accessory* for dressing table, bath or kitchen.

A tap of your fingertip gives just the right amount of soothing, pure white Jergens Lotion to make hands smooth again after dishwashing or chores.

Look for this special yellow and black carton and get a dainty dispenser *free* with the big dollar size Jergens Lotion —both only 98¢, plus tax!

* Use Jergens Lotion for two weeks. If not completely delighted with it, mail it back to The Andrew Jergens Co., Cincinnati 14, Ohio. Your full purchase price will be refunded. Keep the dispenser as your free gift.

New Research Reveals

7-DAY DISINFECTANT

One cleansing is effective all week long

NEW YORK, N. Y.—A prominent laboratory has proved "Lysol" brand disinfectant 30 times more effective than 5 leading bleaches claiming disinfectant powers when tested by an officially recognized method against typhoid germs.

Scientific research tests with germs involved in scarlet fever and "strep" throat show "Lysol" remains active against germs for 7 days, while the effect of a leading bleach lasted less than 2 hours!

Continuing effectiveness of "Lysol" helps protect homes with an anti-germ blanket between weekly cleanings.

CLEANS AS IT DISINFECTS

"Lysol" has a soapy cleansing action that leaves tile and porcelain surfaces gleaming. Its potent wetting action penetrates deeply into cracks and crevices . . . seeks out germs and dirt in the invisible "pores" of painted walls and woodwork.

More and more housewives are learning that a weekly cleaning with just "Lysol" and water is the quick, easy, effective way of cleaning house and killing disease germs at the same time.

CLEAN—DISINFECT DEODORIZE WITH

"Lysol" Brand Disinfectant

In 1952, after long scientific research, the formula for "Lysol" disinfectant has been improved by the replacement of most of its cresylic acid content with ortho-hydroxydiphenyl.

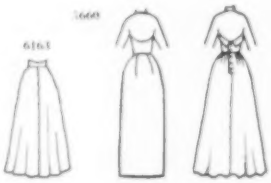
Build a wardrobe

From page 132

Here are the back views and fabric yardages of the four Advance Patterns photographed on our model, Jan Rasmussen.

6184. "Little jacket" in size 16-18 requires $1\frac{3}{8}$ yards of 54-inch fabric with $1\frac{1}{4}$ yards of 39-inch fabric for lining. This Advance Pattern comes in sizes 12-14 and 16-18. Price, 35 cents.

6168. Basic dress, size 13, requires $5\frac{1}{8}$ yards of 35-inch material; $6\frac{7}{8}$ yards of trim. Pattern comes in junior sizes 11 to 17. Pattern price, 35 cents.



6163. Skirt, 28-inch waist, needs $2\frac{1}{8}$ yards of 54-inch material; $1\frac{1}{4}$ yards of 39-inch for hem and belt facing. Waist sizes 24, 26, 28, 30. Price is 25 cents.

5660. Dress and overdress. Size 16 requires $2\frac{3}{4}$ yards 39-inch fabric for dress which doubles as slip. Overdress size 16 takes 7 yards 35-inch fabric and $2\frac{1}{2}$ yards of ribbon for belt. The pattern sizes, 12 to 18. Price is 50 cents.

These four Advance Patterns are available from local dealers or you may purchase them direct from Successful Farming *by simply filling in the handy coupon below.*

To: Successful Farming,
4711 Meredith Building,
Des Moines 3, Iowa.

We have enclosed cash or money order in the amount of $ ..... for the following patterns:

- ☐ 6184 Size .....
- ☐ 6168 Size .....
- ☐ 6163 Size .....
- ☐ 5660 Size .....

Name .....

Address .....

City ..... State .....

"Naturally, my dear, my Combination Windows are CINCO-THERMOSEAL

"I looked at all of them, and there's just no comparison! Cinco-Thermoseal windows have so many exclusive features . . . they operate so smoothly . . . and they're self-storing, so there's no seasonal changing. And everybody says that the beautiful satin-finish aluminum does wonders for the appearance of my house."

For free literature and name of nearest dealer, write Dept. 3-SF-112

THE CINCINNATI FLY SCREEN DIVISION of the F. C. Russell Company • Cleveland 1, Ohio

CINCO-THERMOSEAL
DELUXE ALUMINUM
COMBINATION SCREEN & STORM SASH

This NYLON BRUSH saves you real CASH!

OXCO'S all-purpose SUPER GONG® scrub lasts a full year...

Successful commercial dairies in many States have used this nylon-bristled hand scrub every day for a full year! That's 10 to 12 times the wear you'll get from your present brushes. Save real cash in brush replacement costs . . . get an Oxco Super Gong on your next buying trip. Stiff, crimped black Nylon bristles; solid "wears like iron" Saran plastic block. He-man handle with non-slip surfaces. Packed in red and white box.

Costs more than other brushes but saves the cost of replacing 10 to 12 worn-out ordinary brushes. Ask for Oxco's nylon-bristled Super Gong, in 2-color box.

OXCO BRUSHES

OX FIBRE BRUSH COMPANY, INC.
FREDERICK *Established 1884* MARYLAND

When *children* come to *call*

By William Hughes

Holiday time means happy reunions and a long parade of family and friends. Some will be old, some will be young. If you no longer have youngsters around, your youthful guest may seem a bit of a problem. And even if you do have young children of your own, it's not always easy to take care of more.

But they needn't be trouble. If you keep them busy and help them make their own fun, Mr. Mischief won't have a chance to intrude. You adults can enjoy your visit in peace.

Give them a place to play

Whatever the ages, youngsters should have a place for fun. If you have children you probably have a nursery or playroom of some sort. If not, turn another room over to the young. Let them know where they can do their coloring, puzzles, or roughhousing. You might put a grab bag of games—jacks, cards, balls, paper dolls, jigsaw puzzles, and picture magazines—in the room. Ahead of time, remove from the room any articles which can be easily damaged.

Give them something to do

No one expects boys or girls to remain in one place very long. And when the novelty of the playroom wears off, they'll look around for something else to do. If the weather permits, divert their attention outside. Show them the farm animals and busy their hands with small farm chores.

Let them help you

Little jobs they avoid at home become unbelievably interesting at someone else's. Make a game out of small chores with questions like these: "Can anyone slice the bread into exactly 14 pieces?", "Who can arrange the place cards so that family and visitors sit alternately?", "Who reads well enough to take books from the bookcase, dust them, and put them back again with the titles right side up?"

You'll have loads of help when you turn work to play.

Send them home with a treat

Make it something extra special—simple holiday cookies, doughnuts, or a little treasure of candies. (Be sure the treats have parents' approval.)

For older children, a magazine or book to read at home and return adds a grown-up touch, makes them remember and appreciate your hospitality long after they have left your home. END

UNDULANT FEVER VICTIM PROTECTS HIS FAMILY FROM DISEASE

Gaylord Martinson

Gaylord Martinson, Mt. Horeb, Wis., was a victim of Undulant Fever—contracted from handling cows. During his long period of illness and suffering, Martinson didn't worry about his family contracting the disease from drinking milk. "I owe this to one thing," says Martinson, "—our Waters Conley Pasteurizer. My children got protection when it counted, not only from Undulant Fever but other milk-borne diseases too."

HAVE DISEASE-FREE* MILK this easy way!

The simplest, easiest to use, most economical electrical home pasteurizer you can buy. Can't boil milk or cause "cooked taste." Pasteurizes a gallon at a time. No need to check temperatures or watch the clock. No stirring necessary. All aluminum, easy to lift and store. No moving "agitator" to cause trouble. Laboratory tested and guaranteed. Accepted for advertising by American Medical Ass'n. Ask your dealer or mail coupon for details.

Automatic—just turn it on—it does the rest

HOME HEALTH

PASTEURIZER

FREE FOLDER

WATERS CONLEY CO., Dept. S, Rochester, Minn.
Please send free folder giving facts on milk-borne diseases and details on the Home-Health Pasteurizer.
NAME _____
ADDRESS _____

* **UNDULANT FEVER**
Typhoid Fever, Scarlet Fever and Tuberculosis are other milk-borne diseases. The Home-Health Pasteurizer destroys these germs . . . makes milk safe for your family.

LEARN TO TRAP

New 32 page Catalog and Book of Methods, and information mailed FREE. Describes traps, baits and equipment available at lower than usual prices.

FUN AND PROFIT

Your spare time is worth BIG MONEY if spent trapping. Let TAYLOR help you. Send postcard with name & address to

F. C. TAYLOR FUR CO.
Dept. 3
400 S. 7th St. **ST. LOUIS 2, MO.**

BOSTROM IMPROVED FARM LEVEL

Accurate, Durable and Complete for Terracing, Ditching, Irrigating, Tile Draining, Grading, Running Lines, Turning Angles and etc.

The Bostrom is used and endorsed by Schools, Extension Service & Individual Landowners everywhere.

Anyone can operate a BOSTROM Level by following the simple direction booklet included with each Instrument. We manufacture 3 models: Farm Level, Contractors Level, Convertible Level. All BOSTROM Levels are sold on the guarantee of satisfaction or money back. WRITE TODAY for literature, prices and name of our distributor near you.

Bostrom-Brady Manufacturing Co.
531 Stonewall St., S.W. ATLANTA, GA.

SEWAGE BREEDS DISEASE

Eliminate Smells and Troubles from Outdoor Toilets, Cesspools and Septic Tanks with Enzymatic — the revolutionary multiple-enzyme powder eliminates odors, liquefies and digests solids. Start your protection with $1.50 can . . . complete with instructions. If dealer can't supply, send postpaid for

N. O. NELSON CO.
P.O. Box 3265 DEPT. A-13
ST. LOUIS 1, MISSOURI

MONEY-BACK GUARANTEE (If not entirely satisfied)

BEAN'S Cottontail Rabbit Repellent
Prevents Gnawing, Girdling. Quart — $1.75, protects 40-50 young fruit trees all winter. Gallon — $5.75; pint — $1.00; half-pint — 60c. (Postpaid).
F. R. BEAN COMPANY, SCOTTSVILLE, N. Y.
Farm Chemical Formulations Division 7.

LOW PRICED Sunflower ROTO-SAW
SAWS DOWN TREES-CLEARS LAND
Saws Up Logs and Branches

Quickly Attached to Ford, Ferguson & Other Tractors
A TIME SAVER and A MONEY MAKER!

Get Full Details!

It's doing a great job of land clearing, tree-felling, wood-cutting in rural communities everywhere...this amazing patented Sunflower Roto-Saw! Learn for yourself its many superior features. Outstanding for fast, safe, dependable sawing. Adjustable to many angles. Quickly attached to Ford, Ferguson, and other Tractors.

A Great Work & Time Saver! Easy for 1 man to operate. Fells trees fast! Zips up logs and branches. Sturdily built for lifetime of dependable service. Soon pays for itself. **Also** learn about amazing wood and brush cutter and low-priced post hole digger. **Send For Free Folder!** Find out how easy & cheap it is to own a Sunflower **Roto-Saw.** Send today for **Free Folder** & amazing **Low Priced**

SUNFLOWER INDUSTRIES, INC.
339 South Kansas Ave. Olathe, Kansas

FREE Folder

The advantages and features of repeating shotguns have been argued — pro and con — countless times. Some shooters prefer a "pump" . . . others "wouldn't own anything but an auto-loader."

Whichever *your* personal preference, you'll find it under the Savage or Stevens brands. Ask to see Savage auto-loaders or Stevens pump guns at your dealer's. *Write for free catalog.*

SAVAGE ARMS CORPORATION
Firearms Division, Chicopee Falls, Mass.

Savage Auto-loading Shotguns

(Standard) **Model 755** **$99.50**
(Lightweight) **Model 775** **$105.00**
12-16 gauge, 5-shot

Two smartly streamlined models . . . The Standard Model 755 gives maximum reduction of recoil from even the highest velocity loads. The easier carrying, faster pointing Lightweight Model 775 is tops for upland game and skeet shooting. *Either* model has the sleek appearance, perfect balance and smooth operation you'll want in your new auto-loader.

Stevens Pump Guns

Model 820—Solid Frame (shown) **$39.00**
12 ga. only
Model 620—Takedown **$75.00**
12-16-20 ga.

Two streamlined models: 820—world's greatest repeating shotgun value. Modernly designed to give you a rugged, dependable, 6-shot repeater at a thrifty price. Walnut stock and slide handle. 620—top performance and dependability are yours in this popular, hammerless, 6-shot repeater. Original slide action design. Takedown. Visible locking bolt. 12-16-20 gauge. Walnut stock and slide handle.

SAVAGE
SAVAGE · STEVENS · FOX · Firearms and Shotguns
SAVAGE · WORCESTER Power and Hand Lawn Mowers

Decorating advice. Stores offering **Successful Farming's** home planning service are listed on page 87. Visit store nearest you for help with decorating problems.

LOADED FOR MASTITIS!

4 KINDS OF MASTITIS GERMS — not just one — are stopped by Dr. Hess Mastitis Ointment. That's because it's *double-powered;* contains 150,000 units of penicillin plus 100 mgs. of streptomycin. High potency formula means less chance of germs becoming treatment-resistant. Non-irritating. Needs no refrigeration. One $1 tube treats a quarter. Good idea to get *several* from your Dr. Hess dealer.

SKP

CHECKS SCOURS—QUICK

Fast-acting SKP works 3 ways to stop scours in calves, and prevent costly losses. Contains Sulfathiazole, Kaolin, Pectin—balanced for best results. Pays to have it always on hand!

Dr. HESS

MASTITIS OINTMENT

DR. HESS & CLARK, INC., ASHLAND, OHIO • SCIENTIFIC FARM-ACEUTICALS SINCE 1893

Veterinary

Old cow didn't breed

Not long ago we were making some pregnancy examinations of cattle. All but one of the animals were pronounced safely with calf. This was somewhat of a disappointment, for the cow had been bred only once some four months earlier, and was considered "settled."

An explanation was furnished by a look in her mouth. The teeth were worn down to the gums and the cow was estimated as being 14 years old. Cattle grow old just like all other animals and eventually reach the age where they're no longer able to reproduce.

Don't mix old and young pigs

At weaning time it's well permanently to separate young pigs from older swine. Besides not having to compete with their elders at mealtime, the weanlings may be spared a bout with Bang's disease. This is because they are like young calves in being highly resistant to the trouble.

Even though they do become infected before weaning, the pigs probably will be completely recovered by the time they reach breeding age. But when big pigs and little pigs run together, infection may occur at a much later time.

Cows need comfort

Cows will give more milk if you give them plenty of stall room. This is true even if added comfort has nothing to do with increased milk production. Ample stall room means fewer teat and udder injuries. Proper length cuts down on udder bruises due to draping over sharp gutter edges. Plenty of room in all directions means less mastitis trouble. Proper stall dimensions depend on the size of the cows.

Watch for worms

A few weeks ago a farmer complained that his pigs weren't doing well. Although literally "eating their heads off," they weren't growing properly, and all the animals were decidedly "potbellied." Trouble was traced back to a heavy infestation with ascarids or roundworms.

Watch those feet!

Do any of your brood sows become inactive and just seem to lie around? We recently examined a sow which had farrowed a large litter, but was so clumsy she had killed most of the pigs within a few days. The sow spent a great deal of time lying in her nest, finally became constipated, and went completely dry. The few remaining pigs had to be removed and raised as orphans. The trouble was due to nothing more than sore feet. This painful condition can largely be prevented by regular toe trimming, soaking the feet in oil, and keeping sows off concrete as much as possible.

It was ergot

Not long ago we checked a cow which had lost the end of her tail, and parts of her ears had sloughed off, too. In addition, there were some sores around the tops of her hoofs and between the toes. She showed signs of being stiff and somewhat nervous. The symptoms were recognized as being those of ergot poisoning. This is caused by the smut which often replaces the seeds of cereal grains, particularly rye. In the fall of the year, be alert for similar cases on your farm.

Cow had "big hock"

The picture below shows a condition of cattle commonly known as "big hock," more properly called hygroma of the hock. There are normally several little sacs of fluid at various points in this area which cover joints and serve as cushions under tendons. Constant bruising of the hock causes nature to increase the

Photograph: Bailey

amount of fluid in these sacs in order to afford greater protection. Sacs may swell and finally break.

Confinement in stalls which are so short that hocks are continually banged over the gutter edge when cows lie down is a common cause of this condition.

Treatment of any kind is useless unless the cause is removed. Once this is done, hocks may return to normal size with no other attention. Severe cases may require surgery, bandaging, and daily treatment with various drugs to control infection. Painting with iodine is often helpful in reducing swelling.

It was erysipelas

Recently an owner reported that a valuable young boar was hurt and unable to stand or walk. Both hind legs were affected, and he was afraid that the back or pelvis was broken. However, it turned out that the animal had erysipelas and most of the other pigs came down with the disease within a few days.

All of which is a reminder that sudden lameness or stiffness in swine can indicate erysipelas or cholera as well as injuries or broken bones. **END**

STOP . . MILKING BY HAND OR WITH AN OLD INEFFICIENT MILKER

WRITE . . . FOR DETAILS ON GLOBE'S AMAZING SAVE 1/3 LOW PRICES

BUY NOW and RECEIVE . "Any Two" BEAUTIFUL, ATTRACTIVE, PRACTICAL CHRISTMAS GIFTS FREE

THE GLOBE 1-2-3-4 Rhythm MILKER

Gives you 12 Exclusive, Superior features for Better, Faster Milking. Globe is the only Milker made that guarantees POSITIVE PULSATION and 1-2-3-4 RHYTHM MILKING. Globe gives a gentle milking action to teat 1, moves quickly on to teat 2, to teat 3, to teat 4, and back to teat 1 in a constant, steady, never-varying rhythm until the cow is dry. Globe's milking action is beneficial to increased production and herd health.

GLOBE'S SAVE ⅓ SALES and SERVICE PLAN permits such amazingly LOW prices that you can't afford to continue to milk by hand, or with an inefficient, outdated milker.

BUY NOW and take advantage of GLOBE'S SPECIAL CHRISTMAS GIFT OFFER — A choice of "Any Two" of a number of beautiful, practical home appliances or personal gifts IF you purchase your GLOBE MILKER NOW.

DON'T WAIT — write today for full information on Globe's 12 Exclusive, Superior Features . . . "The Experience of Globe Users" . . . and GLOBE'S SAVE ⅓ SALES and SERVICE PLAN with Globe's *plus value* Christmas Gift Offer.

This is your opportunity to get the MILKER you've always wanted at the sensible Globe Low price *Plus* 2 valuable Christmas Gifts.

GLOBE MILKER COMPANY
East 1st and Court — Des Moines, Iowa

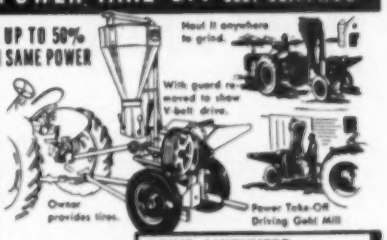
Keep *Successful Farming* coming your way. Each month in *Successful Farming*, you will find the kind of information that will help you increase your profits, make your farm work more convenient, and your farm living more comfortable.

SAVE $100.00 LIME-SEED-FERTILIZER BROADCASTER
COSTS AS LITTLE AS $66 (freight prepaid)
Factory-to-you plan saves real money. Sturdy, low-cost construction. Special hitch. No-Clog agitator. Gives exact spreading—50 lbs. to 6,000 lbs. per acre. Uses 2 sq. ft. of floor space. Iron-clad guarantee. 16,000 working in 30 states.
MOORE MANUFACTURING CO.
EWDESBORO 17, NEW JERSEY

GEHL Grind-All HAMMER MILLS — NEW POWER TAKE-OFF ELIMINATES BELT SLIPPAGE

GRINDS UP TO 50% MORE WITH SAME POWER

This new Gehl Power Take-Off and its six V-belt drive avoids the usual power loss and speed variation due to tight tractor belts or belt slippage. It holds the mill steadily to the speed at which grinding action is most effective and further increases the well known high efficiency of the Gehl Mill . . . steps up its grinding capacity as much as 50% with the same power.



Standard Gehl Grind-All Mill Famous for big capacity with low power positive non-clogging feed to blower

WRITE today for full description of this time and labor saver, and name of nearest Gehl dealer.

Manufacturers of famous Gehl Forage Harvesters

GEHL BROS. MFG. CO., Dept. WL-500, West Bend, Wis.

GRIND ANYWHERE . . . The Gehl Power Take-Off Hammer Mill Drive is easily and quickly attached. Can be had complete with new Gehl Grind-All Hammer Mill, or for use with any Gehl No. 41 Mill you may now own. With transport truck, which is optional, you can store mill where convenient . . . or hitch to tractor and go anywhere to grind.

THERE'S NOTHING BETTER THAN A GEHL!

He made $779.70*
You can, too!
TRAP FOR PROFIT THIS FALL!

*Henry W. Anderson, Stanton, Michigan, writes: "I made $779.70 trapping muskrat, mink and fox. I used the money to pay bills—bought some cattle, too."

Jack M. Howard, Newport, Rhode Island, says: "My Victor traps brought me $550.00 worth of muskrat pelts last year."

Otto Slovak, Wolcome, Texas, tells us: "I made a down payment on a tractor with the $300.00 I made trapping mink, fox and 'coons."

Frank Mudgett, Bennington, Vermont, writes: "I used part of the $423.00 I made trapping muskrat, mink and beaver to buy supplies and sporting equipment."

Walter Stubbs, Superior, Wisconsin, says: "Because of the beaver, otter and mink I trapped last year my bank account is $490.87 bigger."

Trap for profit this fall. There's no easier way to make extra money—especially when you use sure-to-hold Victor traps—look for the "V" on the pan.

No. 1½
Victor VG Stop Loss

ANIMAL TRAP COMPANY OF AMERICA
Dept. 204, Lititz, Pa.

Victor TRAPS
Mean Money for You!

The Farmer's Trading Center is one of the nation's leading mail order sections. Use it to boost your business.

Recommended By Many Leading
BABY DOCTORS
to relieve distress of
CHEST COLDS
And Break Up Painful Localized Congestion

A number of baby doctors today are recommending Child's *Mild* Musterole to promptly relieve coughs, sore throat, localized inflammation and to break up congestion in nose, throat and upper bronchial tubes of the lungs. Just rub it on!

Musterole instantly creates a wonderful sensation of *protective warmth* on chest, throat and back and brings amazing relief. There's also Regular and Extra Strong Musterole for adults.

Child's Mild
MUSTEROLE

Ewes are well fed at all times. Ewes are grain-fed during the winter. They also receive good-quality hay. Wool pays for grain

All ewes and purchased feeders are drenched for worms. Ewes are drenched three times, feeders at time of purchase

If a ewe has twins, she is handled differently. The ewe is kept in a single pen with her lambs for two days instead of one. After two days, she is put in a pen with another ewe and her twins and is kept here three days. The twins are then collected together in groups of not over 25 ewes and 50 lambs for five days. Then they are transferred to a group of 100 ewes and 200 lambs. In about three weeks the ewe and her twin lambs are transferred to the regular flock.

John lost a good many lambs before he started his "training" course. "I had lambs starve to death simply because the ewes couldn't find them," he said.

In any sheep-raising system as large as this one, there are bound to be some orphan lambs. These orphan lambs are kept in a special pen and are bottle-fed. Milk from ewes that have more than enough for their own lambs is fed to the orphans. Dead lambs are skinned immediately and the skin is put on one of the orphans. A ewe usually will accept the orphan as her own lamb and will nurse it.

This "orphan-pen" system largely eliminates the dry ewes. An orphan over a week old is too old for adoption and is either given away or raised on cow's milk.

This system of handling lambs has kept the death rate very low in the Young flock. Since each ewe is matched with her lambs by the brand number, it is easy to find a lamb that's starving.

Lambs are allowed to run with the ewes at all times. As soon as they are old enough to eat, they are self-fed shelled corn.

Many sheepmen won't go along with the method John uses to feed his lambs. The lambs are self-fed. They can eat all they want at any time. Two large self-feeders are kept full of shelled corn all the time.

The lambs eat from the self-feeders round the clock. One of the feeders is lighted so that the lambs can eat during the night. And they make good use of the night hours. According to John, he has to fill the lighted feeder twice as often as the unlighted one. There are always lambs around the lighted feeder, regardless of the hour.

The lambs eat about 2½ pounds of shelled corn per head per day. This is about ¾ of a pound more than the lambs ate when John used to hand-feed them. Since he has been using the self-feeders, the lambs are ready for market about 30 days sooner than when hand-fed.

The losses from overeating under this self-feeding system are very low. About 1.5 percent is the usual loss. The low death rate is the result of careful feeding. A commercial supplement is mixed and fed with the corn. One hundred pounds of the supplement is mixed with each 33 bushels of shelled corn. The supplement contains proteins, vitamins, and minerals. A feed mill in DeSoto, Kansas, mixes the supplement for the Young flock.

Purchased feeder lambs are handled just like the home-grown lambs. However, the purchased lambs are worked up to a ration of 1¾ pounds of corn per day before they are allowed to go to the self-feeders. The 1¾ pounds of corn is hand-fed in bunks.

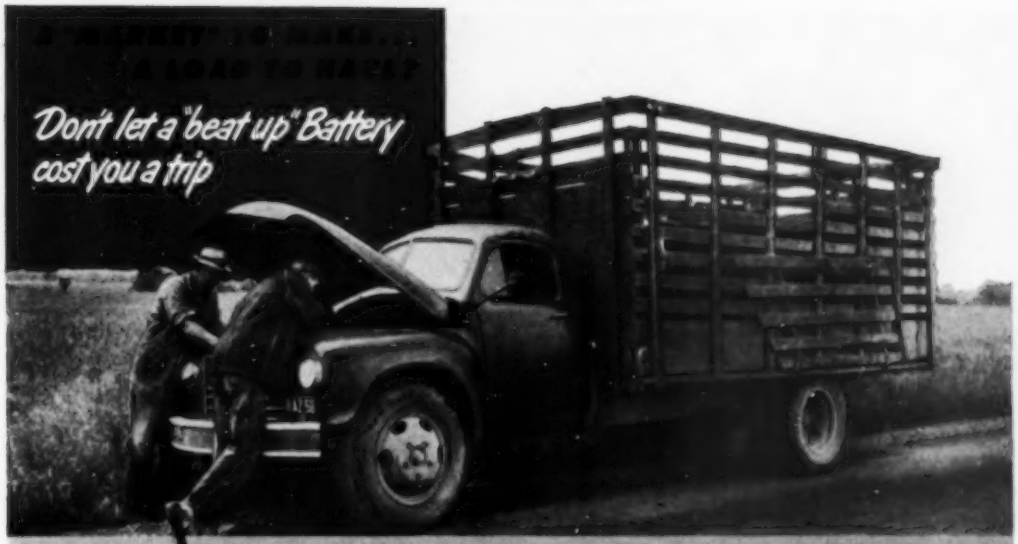
When John sells his lambs, there's no doubt about the effectiveness of his system of raising them. He gets top prices. The lambs have been dressing out better than 51 percent. And that percentage is for the entire flock, not just the top lambs.

June 15 is usually the date when the largest lambs are sold. Those that aren't sold at that time are weaned a month later and fed out on self-feeders until about September 1. At this date, the lambs usually weigh about 90 pounds.

Taking good care of the ewes is also important on this farm. Drenching for worms three times a year, feeding phenothiazine in salt, and spraying for insect control help keep the ewes in good condition. The feeder lambs which are bought are wormed as soon as they arrive at the farm.

Wool from the ewes adds a good bit to the income from the flock. The ewes are grain-fed during the winter as needed,

[*Turn to page 140*



AAA reports over 10 million breakdowns caused by battery trouble in one year

DON'T LET IT HAPPEN TO YOU...

GET THE NEW WILLARD

5-minute Battery Condition Test

✓It's Free! ✓It's Fast! ✓It's Accurate!

For your car or truck...look at the Willard HEAVY DUTY *De Luxe*

With up to 56% more starting power at zero than required to meet standards of Society of Automotive Engineers! Sells at popular prices!

FOR THE ULTIMATE IN BATTERY PERFORMANCE

The Willard Super Master offers you 80 to 119% more starting power than required to meet standards of Society of Automotive Engineers. Metalex Grids provide 100% more protection against overcharging, today's No. 1 Battery Killer.

AND A GENUINE WILLARD BATTERY AT A LOW PRICE

Now you can have Willard quality at lowest possible price. Safety-Fill construction provides extra protection against acid spray and corrosion caused by over-filling. Fits most popular cars. Fully guaranteed!

WILLARD PRICES START AT $16.65

less liberal allowance for your old battery

Whenever you want to cash in on a "market" bulge – or keep a hauling date in any weather – be sure your truck battery has the wallop for cold engine starting!

Now, using the new Willard Charge and Condition Tester, your Willard Dealer can quickly show you the exact condition of each cell of your battery. Summer heat saps the strength of batteries. Maybe all your battery needs – right now – is a drink of pure water. If it lacks pep and power, a recharge might snap it right back to par – and save you the grief and expense of crippling battery failure. See your Willard Dealer tomorrow – then see him every month – for this Free . . . Fast . . . Accurate battery condition test which can save you a lot of trouble and money.

FOR THE NAME OF YOUR NEAREST WILLARD DEALER

CALL WESTERN UNION BY NUMBER, ASK FOR *OPERATOR 25*

Ring your local telephone office and just call Western Union by number and ask for Operator 25. She will give you the name and address of the Willard Dealer located nearest you. Or, look under "Batteries" in the Yellow Pages of your telephone directory.

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Decorating advice. Stores offering **Successful Farming's** home planning service are listed on page 87. Visit store nearest you for help with decorating problems.

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Make money on sheep

From page 138

but John figures the wool largely pays for the grain. And the good condition of the ewes at lambing time is enough to convince this sheepman that grain feeding pays. The ewes are sheared in April before hot weather sets in.

It takes a good deal of feed to handle 500 ewes, their lambs, and the purchased feeders. John has 320 acres of what used to be considered "not-so-good" land. The land cost $50 an acre in 1944. A good land-use program has increased the value of the land a good deal. Eighty acres of the farm are in alfalfa, 50 acres in red clover and Ladino, and the rest in brome and lespedeza. About 3,000 bushels of corn are bought every year.

John sums up his sheep program by saying, "In my opinion, you shouldn't have anything permanent for the raising of sheep except the four outside walls of the buildings and your boundary fences. You've got to change things often to suit the sheep." **END**

Hormones speed lamb gains

Western feeder lambs treated with hormones have made up to 50 percent faster gains than untreated lambs in feeding trials at the Wisconsin Experiment Station, according to Dr. Art Pope, department of animal husbandry.

Stilbestrol pellets, such as used by poultrymen, were implanted in the skin of the lamb's ear. This part is cut off after butchering, so that the drug doesn't carry over in the meat. The Federal Food and Drug Administration has approved the use of stilbestrol in poultry fattening but, unless the pellets are placed in the ear of the lamb instead of the neck, it has not yet approved use in lambs.

Lambs treated with stilbestrol pellets were fed a much shorter time because of their fast rate of gain. However, at time of kill, the stilbestrol treated lambs carried a little less finish at 100 pounds than untreated lambs and were penalized on market grade.

During the trials, the untreated lambs gained from .39 to .43 pound daily. The treated lambs gained from .62 to .67 pound per day. On the untreated lambs, the cost of feed per 100 pounds of gain was $16.32 to $16.68 compared to only $10.92 to $11.23 for the stilbestrol-treated lambs.

The resulting return per lamb was $1.56 to $3.02 for the untreated lambs compared to $2.48 to $3 for the treated lambs. The treated lambs showed the larger return even with slightly less finish because their weight was put on more economically.—*E. M., Wisconsin.*

He gets a 9-pig average per litter

It takes about 5 pigs raised to market age to pay the cost of a litter. Last fall Robert Gustafson, Knox County, Illinois, came out with a 9-pig average per litter. At this rate, Gustafson figures his hog-raising system is paying him well.

"Exercise is one of the most important factors in getting good litters," says Gustafson. His sows are allowed to run in stalk fields for exercise. Once a day, Gustafson hand-feeds a ration of oats, protein supplement, and alfalfa meal. He also feeds enough corn by hand every day to keep the sows in good condition, but not enough for them to get fat. If no cornfield is handy, he scatters corn over a field near the barns.

Brood sows are picked solely on appearance at the time of selection. He keeps no records of the litters, but rather picks the biggest and best-developed gilts showing good Hampshire type.

Another important factor in his hog system is that he spends as much time as possible with the sows during the winter months. The result is that the sows are much easier to handle at farrowing time. About a week before farrowing, the sows are placed in a central farrowing house. For the first 12 hours after they farrow the sows get nothing but water. Then they go back to their former ration of oats, protein supplement, and alfalfa meal.

Sows and litters are hauled by truck from the central house to pasture. This eliminates any possibility of picking up diseases. Also, when sows and pigs are hauled to pasture there is less chance of their returning to the farrowing pen.

This system may sound like a lot of trouble, but Gustafson figures it's no harder to do a good job of raising pigs than a poor one. And it's paying off in the pocketbook.—*B. J., Illinois.*

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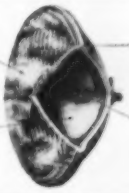

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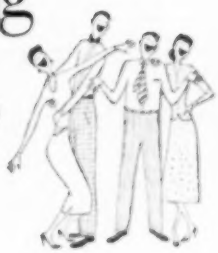

Clear Sailing Upstairs

After failing for the second time to pass the road test required for an operator's license, the tearful young woman admitted to the officer that the very thought of driving in traffic bothered her.

"Well," questioned the sympathetic officer, "why don't you wait a year or so and try again?"

"But I can't," sobbed the disappointed lady. "You see, I just have to get back and forth to the airfield. I'm a pilot!"

A New Come-on

An antique buyer sized up the shopkeeper as being dim-witted. When the buyer saw a cat lapping milk from a valuable china saucer, he saw a chance for a fast dollar. After some bickering, he bought the cat for $5. Then he suggested that Kitty would feel more at home if the saucer went along.

"Oh, no, mister," said the shopkeeper. "That's the fifth cat I've sold with the help of that saucer!"

The Big Squelch

He was boring the girl to tears with tales of his old girl friends when her dog came into the room. "Say, have you taught the pup any new tricks since I was here last?" he asked.

"Yes," was her sweet reply. "If you whistle, he'll bring you your hat."

The Error of Our Ways

(Calls From the News Columns)

A Delectable Time Was Had

Delirious refreshments were served by the two charming hostesses.—*Huntington (West Virginia) paper.*

No Wool Over Their Eyes?

J. L., the cross-country coach, tells us he's got his boys outwitted with brand-new warm-up suits that have big bumpers on the back.—*Northern Michigan Review.*

Fast Pace

Mrs. Robert W. M. returned Monday from Syracuse after speeding two weeks with her daughter.—*Jamestown (New York) Post-Journal.*

Sticky Diet

The surgeons are displaced persons living on gum with their families.—*Eugene (Oregon) Register.*

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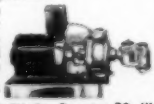

DECATUR PUMP CO., 30 Elk St., Decatur 70, Ill.

Super-

saves the free nitrogen in piled manure

By C. J. Chapman
University of Wisconsin

To receive the greatest benefits from piled barnyard manure, treat it daily with superphosphate. Many farmers say a ton of phosphated manure is worth 2 tons of the untreated type. When one considers that the cost is only about 1 pound of superphosphate per cow each day, it turns out to be an economical fertilizer.

Besides enriching the phosphorus content of manure—which is very low anyhow—the phosphate performs a very important added service by "fixing" or "tying up" the free ammonia in manure, so that it cannot escape as nitrogen before it is applied on the field. Nitrogen is cheap when applied as manure—the trick is to keep it in the manure until it can be applied to the soil.

The proper way to apply superphosphate is to dust it in the stable gutters at the rate of about 1 pound per cow per day. This way it will absorb large amounts of liquid manure and also act as a deodorant. Then when the manure ferments in the pile, the ammonia which is released is trapped and remains with the manure as it is spread, thereby keeping the nitrogen so that it is available in the soil.

The phosphorus content of manure is quite low. A ton of manure, with bedding, will contain only about 5 pounds of phosphate. By treating it with 25 pounds of 20-percent superphosphate to each ton, the phosphorus content is increased to 10 pounds per ton. Manure treated in this manner is found to be especially beneficial as a top-dressing for new seedings, or on old established hayfields and pasture meadows.

Phosphating manure in loose-run barns and open sheds is a good idea, too. Superphosphate need not be applied daily, but should be applied every 3 or 4 days at the usual rate of a pound per day per cow. It's a good idea to spread the superphosphate just before spreading fresh bedding. Then there will be no danger of the phosphate's irritating the feet of the animals. For concrete runways and other places where the cattle don't walk on bedding, it's a good idea to use crushed limestone instead of the superphosphate. It's just a safety measure.

When untreated manure is hauled from the pile to the field in the spring, there can be considerable losses of nitrogen due to escaping ammonia. Experi-

phosphate

ments at the University of Wisconsin have shown that up to 60 percent of the soluble nitrogen may be lost within 36 hours if the manure is spread on a sunny, windy day.

Of course, fresh manure in which fermentation has not had a chance to take place can be spread with little danger of excess nitrogen loss. The ammonia does not form until the manure has had time to ferment, which it does while it is piled up or spread deep as in a loose-run barn.

When Wisconsin farmers ask me just what is the best way to handle manure so as to get the most benefit from it, I usually tell them to haul it to the field each day and spread it on as it is produced. There may be some loss of soluble nutrients when the snow melts in the spring, but these losses will be small, because the thin layer of soupy mud under the snow will trap most of them. Of course, if the land is so steep that snow runoff is excessive, then it is best to pile the manure and spread it after the snow is all gone.

But if the manure is allowed to accumulate in piles, there are two steps which will definitely make manure a better fertilizer for your land. They are: *Reinforce or add superphosphate every day, and plow it under or work it into the soil as soon as possible after spreading.*

Cows give milk without calving

Modern sex hormones can make virgin heifers start giving milk without having calves, according to Drs. E. P. Reineke, J. Meites, C. F. Cairy, and C. F. Huffman, research veterinarians at Michigan State College. A group of heifers and sterile cows started producing milk within 4 months after hormone treatment.

Five cattle brought into lactation by this method produced an average of 350 pounds of butterfat in 10 months. While under hormone treatment, the cattle gained an average of approximately 200 pounds in body weight. One of the heifers was bred and conceived on the first service during her hormone-induced lactation. The others remained sterile.

Progesterone and estrogen are the hormones used in this experiment to stimulate the hormone changes believed to occur during normal pregnancy. The hormones were compressed into pellet form and deposited just beneath the skin of the cow's neck. Two implantations at 90-day intervals were made. Approximately 30 days after the second implantation, the residue from the pellets was removed and milking was begun.

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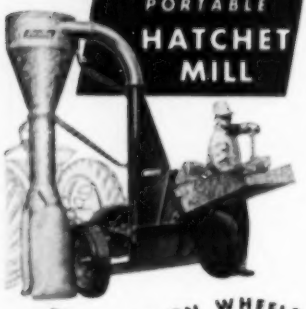

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D.2.2

From humble seeds, unusual

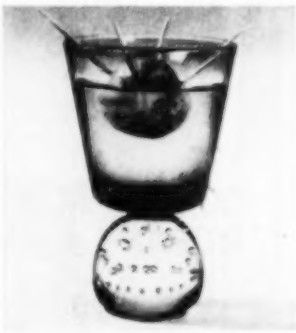
House plants

Handsome, unusual house plants needn't be expensive. You can easily grow them yourself. The seeds from which those on these pages grew are usually cast off in the kitchen. For these came from orange seeds, a sweet potato, carrots, an avocado seed, and a pineapple top!

These humble-seeded plants aren't intended to *take the place* of your other house plants, but rather to add variety to your collection. Other plants you can easily grow indoors are date, pumpkin, parsley, and chive. Date seeds are especially effective if planted around other potted plants, for the seedlings sprout into small palm trees and make attractive, tropical table gardens.

Pumpkin seeds will sprout in sand, or sandy soil. Parsley seed can be purchased and planted any time. In the fall, chive plants for indoor growing can be obtained by dividing the plants in your outdoor garden and potting them in dirt.

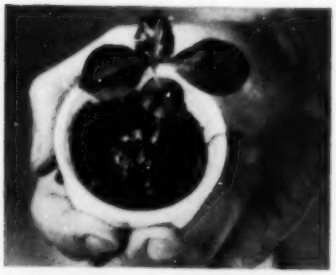
Select sweet potato with tiny buds on ▶ one end. Place potato one-fourth in water, bud end up. Keep amount of water in jar constant and grow vine in sunny window



To sprout avocado seed: Place pointed end up out of water; suspend with toothpicks. Keep seed half-covered with water. Pot in loose soil after five months

Fresh pineapple top with ¼-inch cone attached will form roots in damp sand or vermiculite. Pot in sandy soil and add liquid plant food. The plant needs good drainage

Cut off carrot tops no closer than ¼ inch from top of root; slice off root 2 to 3 inches from top, as above. Plant in a pot or dish of sand, peat, soil, or vermiculite



This lemon seedling is 7 weeks old. Orange, lemon, or grapefruit plants have a clean, glossy green foliage. Start in small pot and later repot plant in clay-loam soil

◀ **Citrus plants** can be kept for years, and may eventually produce fragrant blossoms. This orange plant is about 9 years old. Keep from excessive heat in winter. END

Itching to ditch old-fashioned "heavies"? Get *into* Duofold, the modern two-layer underwear that's *light* as you like it, *warm* as you want it. Duofold *can't* itch, ever—all the wool is in the *outer* layer. Shrink-resistant, too—launders easily. In union suits, shirts and "longies," all popular models and weights for the whole family—ski wear in Sun Valley Red. At better stores everywhere. **Duofold Inc., Mohawk, N.Y.**

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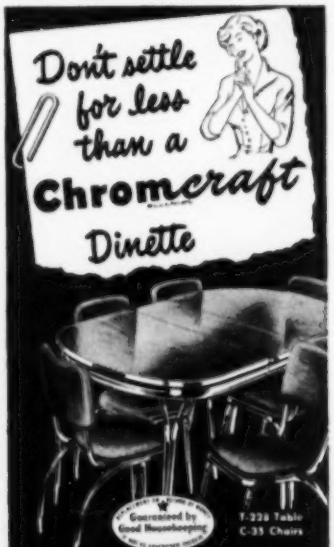

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Wild duck: *from field to table*

Here are the tips you'll need for preparing wild duck after the hunter brings it in from the field

If you have a duck hunter in your family who every autumn brings home at least one duck complete with pinfeathers, you've probably wondered, "Where do I go from here?" Below you'll find the answers on how to remove pinfeathers and the gamy taste, and how to cook the bird.

Urge the hunter in the family to bleed each bird by breaking its neck as soon as it is picked up. If the hunter is going to be out in the field a long time, it is a good idea to have him eviscerate the duck while it's still warm. Ducks that are drawn while they still are warm have a better flavor than those drawn when the bird is cool. A long wait in the sun after the bird has been shot and before it is drawn may cause the bird to become tainted.

To draw—that is, remove the entrails—pluck a strip of feathers from the breastbone to the vent, make an incision, and cut around the vent. Remove all of the entrails carefully, and clean the giblets. To remove the crop and windpipe, make an incision along the back of the neck. Wipe the inside of the bird with a clean cloth or clean paper. Wrap the giblets in waxed paper. Cool the bird as quickly as possible until the body heat is gone.

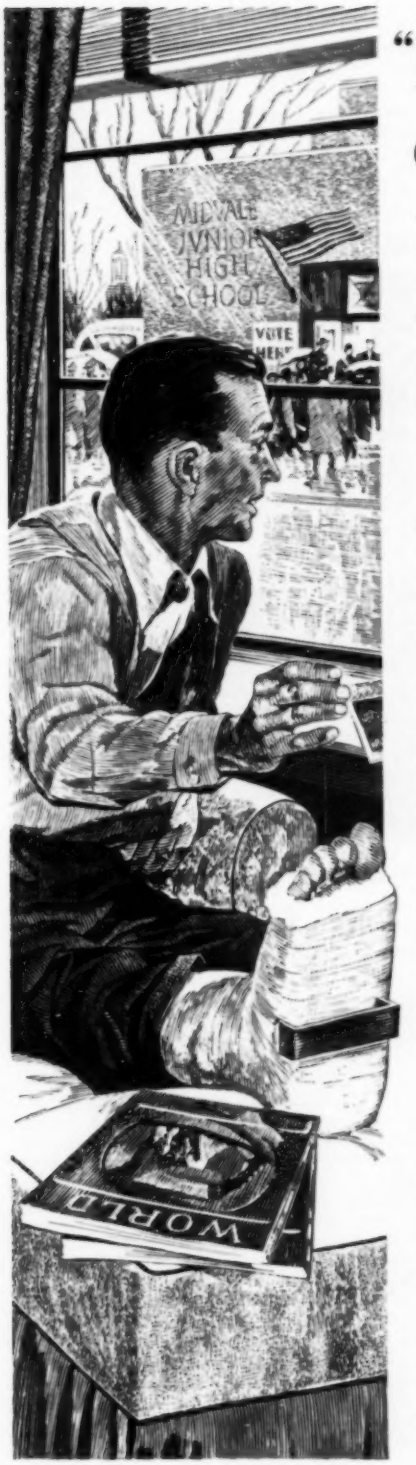
Photographs: Photography, Inc.

1 To pluck the bird, first clip the wing tips and remove the coarse feathers. Then brush on melted paraffin with a clean brush. When the paraffin hardens, pull it off, and you'll remove the down and pinfeathers without the fuss of picking them out by hand.

2 Next wash the plucked bird thoroughly under running water. If you refrigerate the duck for 2 to 4 days, it becomes more tender, firm, and better flavored. If you object to the gamy flavor, soak the bird in salt, soda, or onion water for 1 hour.

3 Stuff the duck with quartered apples, orange slices, onion slices, and celery leaves (discard after roasting). Or use the Apricot-Raisin Stuffing in this month's Successful Recipes (page 54). Truss the duck as you would a chicken or turkey before roasting.

4 Place breast side up on rack in roasting pan. Brush the surface with melted fat or lay bacon strips over the breast. Roast uncovered at 325° to 350° (moderate) 15 minutes per pound for young duck and 20 minutes for old. Baste with pan drippings. **END**



"Hand me my crutches, Mary!

"*Doc or no Doc . . . no wounded leg is keeping* ME *home on Election Day!* When I was over in Korea, *one* of the big things we figured we were fighting for was the right to vote as we please.

"Just look at that crowd! Seems like *everybody* in town's turning out to vote today. In fact, it's been predicted that more than 55 million people all over the nation will be voting!

"Heard a fellow the other day call it 'National *Beef* Day'. Says he, we *all* beef at one time or another about our local, state, or national governments, or certain people in them. *And today's the day we get a chance to back up those beefs with ballots!*

"Whether we squawk about corruption by public officials . . . about wasteful squandering of our hard-earned tax dollars . . . about government interfering in public utilities and private business . . . about overloading government payrolls with un-needed workers . . . or about government employees with red sympathies – Election Day is the big moment for us citizens to get it off our chests with those votes our Constitution guarantees us.

"I say, thank God we don't live in one of those commie countries where people have only hand-picked red candidates to vote for. Those poor devils just don't get a chance to vote for anybody else. Sometimes, Mary, I think we don't fully appreciate how lucky we are. *We* vote for whom we honestly think best . . . and nobody on God's green earth knows *how* we vote!

"So hand me those crutches, Honey. And get *your* hat and coat on, too. We're going to vote together . . . bum leg or no bum leg."

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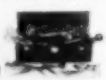

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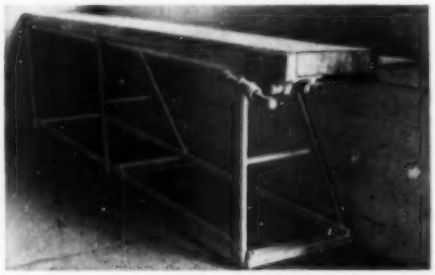
Phone-55578, Dept. S, 804 Church St., Nashville, Tenn.

Handy workbench

One of the essentials of a farm workshop is a workbench. When the bench can be constructed to serve as a spaceaver, its usefulness will be almost doubled.

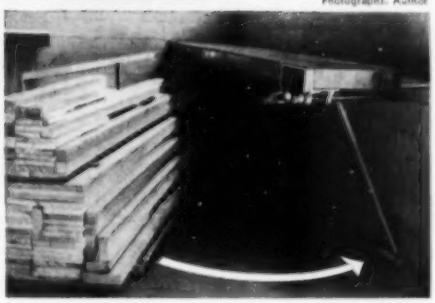
Prof. V. J. Morford at Iowa State College has solved the workshop problems of working space and storage space. He has developed a workbench which provides space for a rollaway lumber rack.

Rather than the usual vertical legs, Professor Morford has utilized diagonal braces to support the bench. This makes space available below the bench for the lumber rack. The frame of the bench and rollaway rack is made of welded pipe and channel iron.—*Verne Graham.*



Lumber-storage frame is mounted on 3" casters. When workbench is in use, the frame fits below where it is out of the way. Pipe is used for storage frame

Photographs: Author



Picture at right shows the storage frame filled with lumber. Ten-foot frame will hold about 250 board feet of lumber. Diagonal braces are used on bench

Dressing chickens pays

Returns for labor spent dressing chickens average $1.13 per hour according to a survey by the Agricultural Economics Department at Cornell University. Profit amounted to 2.9 cents per pound of dressed chicken, about 10 cents per bird.

A good point in favor of a farm dressing plant is the low investment. According to the survey, only $800 was invested in buildings and equipment. The total cost of operating a farm dressing plant, other than the chickens used, was about $1,200 per year. This included $720 for labor, part of which was unpaid family labor.

This kind of an investment enabled poultrymen to dress about 5,000 chickens per year. More chickens could have been handled with the equipment available, as many poultrymen dressed birds only once during the week. In fact, the smallest dressing plant handled only 576 chickens, while the largest dressed more than 19,000 chickens during the year.

Here are some helps for poultrymen planning an efficient farm dressing plant: The building should be accessible by truck so that live birds can be conveniently unloaded and dressed birds removed; the processing operation should be on the ground level to make it easy to bring in live birds and remove dressed ones; provide ample floor space so that work can be performed with a minimum moving of equipment; doors should be wide enough to move coops in and out; and an ample supply of running hot and cold water for scalding, cleaning, and cooling the chickens is a must. Smooth walls make cleaning easier.

The kind of equipment needed depends largely upon the processing method. Six killing funnels with a sloping pan under them to catch the blood are desirable. Where more than 50 chickens are dressed per week, a mechanical picker is a worthwhile investment. A rotating wheel on which the birds can be suspended while the pinfeathers are removed and the birds singed is a handy laborsaver. Such a device is easy and inexpensive to build.

(Continuation of standard equipment and trim illustrated is dependent on availability of material.)

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ABSORBINE

Get rid of Bang's

From page 47

compulsory, the owners still must decide just what they want to do about eradicating brucellosis. The state offers to help those who want to keep their milk market, but doesn't force assistance on anyone.

Michigan offers a choice of two programs. One is the familiar test-and-slaughter-with-indemnities program, and the other is test and deferred slaughter without indemnities. Calfhood vaccination is available on request, and there is no cost to the owners for either testing or vaccination. The control programs aren't compulsory.

New York operates on a voluntary program consisting of two plans. Plan A provides for calfhood vaccination with blood testing and disposal of reactors, while Plan B consists of calfhood vaccination alone. Annual blood tests are limited to clean herds and infected herds only after an owner has disposed of at least half of his former reactors. The cost of testing and vaccination is borne entirely by the state.

Iowa uses a program made up of three different plans. Plan A consists of test and slaughter of reactors with indemnities. Plan B is essentially the same as A, but also includes calfhood vaccination. Plan C consists of calfhood vaccination, with blood testing of adult animals being optional with the owners.

Pennsylvania uses a program of three different plans, too. Plan A consists of test and slaughter with indemnities in combination with calfhood vaccination. Plan B calls for testing and gradual elimination of reactors without indemnity, also in combination with calfhood vaccination. Vaccination of adult cattle is permitted as an emergency measure in selected herds. Plan C consists of calfhood vaccination without blood testing of adult animals.

Nebraska makes use of four plans: 1. test and slaughter with indemnities; 2. testing and deferred slaughter, either with or without calfhood vaccination; 3. calfhood vaccination without testing; 4. testing and official vaccination of adult cattle.

Oklahoma recognizes both the test-and-slaughter plan and calfhood vaccination as methods of controlling Bang's disease.

Blood and milk testing. Most of the other states have Bang's-control programs made up of similar plans. Although there are several different combinations as already shown, all of these programs really boil down to testing and vaccination. The word "testing" is used because both blood and milk come in for checking nowadays in various areas.

In addition to Wisconsin, 13 other states made use of the ring test during recent months as a part of their Bang's-control programs. Since both testing and vaccination are equally important in the eradication of brucellosis, we might review the weak and strong points of each.

The chief value of the ring test lies in

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its ability to eliminate a lot of blood testing through the indication of infected herds. It has the disadvantage of not being reliable for single-animal tests, since the milk from some cows has poor cream-rising properties. When such milk is mixed with that from other cows, the matter is corrected, for a cream line then appears to make the test possible on all the producing cows. The mention of production suggests another disadvantage, for the ring test can't show up infected nonproducing heifers, dry cows, or bulls.

Regardless of stories to the contrary, the blood test is extremely accurate when it comes to showing up Bang's infection. Being human, people who run it are capable of making mistakes, but the test itself is dependable 99.5 percent of the time, which is a pretty good average for anything.

However, like the ring test, there are some things that blood testing won't do. It won't show up animals recently exposed to brucellosis, and it won't tell which animals are going to come down with the disease at some future time. Such inability isn't surprising, for Bang's germs can be spread in many different ways and be picked up by animals in all kinds of places.

Vaccination advantages. Vaccination has to be considered as a double-barreled sort of thing, too, since it may apply to either calves or adults. The advantages of calfhood vaccination have been demonstrated many times.

Experiments that allowed vaccinated and unvaccinated females to run together showed that vaccinated females aborted fewer calves, gave more milk, and had less breeding trouble than their unvaccinated mates. The difference was credited to the existence of more resistance to Bang's disease. However, the practice of vaccinating for Bang's also has some drawbacks.

One commonly mentioned drawback to vaccination is the fact that occasionally calves fail to clear up after vaccination, and consequently remain as reactors to the blood test for varying periods of time. For this reason some owners object to vaccinating calves that may later have to be sold for beef in order to preserve the

[*Turn to page 154*

SUCCESSFUL FARMING

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Bankers Life Man: "Yes sir, Mr. Carson, that's exactly what I mean."

Mr. Carson: "I've worked hard all my life to leave my family well provided for in case anything happens to me. I just don't get it."

Bankers Life Man: "All right, Mr. Carson. Let's take the case of M. C. W. This is an actual case from our files. M. C. W. died suddenly. His estate was valued at $119,850. Here's what it cost to settle it."

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Executor's Fee	2,028
State Inheritance Tax	3,235
Federal Estate Tax	9,405
Total Costs	$35,607
Cash in Estate	9,819
Cash needed at once	$25,788

Mr. Carson: "Do all these amounts have to be paid at once?"

Bankers Life Man: "Yes, sir. There is no way to avoid it."

Mr. Carson: "Suppose the place had to be sold quickly. It isn't always easy to get a good price for a farm in a hurry."

Bankers Life Man: "That's true, and it's another great risk you run if you are not protected."

Mr. Carson: "You mean there's a way to avoid all this so I don't have to worry about my family losing the place?"

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Animal Industry Section

LEDERLE LABORATORIES DIVISION

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Get rid of Bang's

From page 153

status of a certified herd. Such owners will have to decide for themselves if it's better to take occasional small losses from vaccination or none at all while running the risk of a Bang's "storm" that may completely wipe out a herd having no resistance whatever to the disease.

It is also recognized that calfhood vaccination isn't 100 percent effective in protecting animals against brucellosis. Neither can vaccination be depended on for lifelong immunity. No one knows for sure how long the added resistance lasts. It probably disappears completely in a period varying somewhere between two and six years. Regardless of how long it persists, even a little resistance is better than none. Likewise, every protected animal helps to protect others through decreasing the number of "spreaders" that may infect clean cattle.

Adult vaccination is generally pointed out as having one big disadvantage. That is the fact that older animals often fail to become negative to the blood test following vaccination. Since there's no way of telling *vaccination reactions* from those due to *ordinary exposure*, most states refuse to pay indemnity on animals from herds containing adult vaccinees.

However, when infection breaks out in a herd and other control measures aren't practical, adult vaccination sometimes has distinct advantages. It will completely protect some cows against Bang's disease while lightening the effects and preventing abortions in many other cows even though they do acquire the infection.

Slaughter program. There is considerable difference of opinion in regard to the value of a test-and-slaughter program. This calls for blood testing of herds and the slaughter of reacting animals as they are identified. Theoretically, the practice should eventually wipe out Bang's disease through the destruction of spreader animals, but it has certain serious disadvantages.

When only a few animals are involved, they may well represent valuable bloodlines that are being destroyed. When a large number must be slaughtered, an owner may be forced into virtual bankruptcy. There are times when the removal of one or two reactors will effectively end the spread of Bang's disease in a herd. At other times a few new reactors show up on every test until herds are completely wiped out.

A great many dairymen have dropped the test-and-slaughter plan when it showed signs of putting them out of business in this manner. The state of New York discontinued the practice after a three-year trial because records indicated the procedure wasn't economically sound.

The advantages and disadvantages of the practices mentioned explain the wide variation in the different state programs for controlling Bang's disease. All of them are useful at times and under certain conditions, but no single one will fit all

cases. The best plan for you will depend on your location and the amount of infection in your herd at present. A year from now, a different one may be more practical.

However, we might as well recognize from the start that no combination of testing and vaccination will ever be enough to wipe out Bang's disease completely. The matter isn't that simple. Every owner will have to help out by following a sanitary program to prevent the importation of infected animals into his herd.

To be specific, the safest way to protect yourself is through *maintaining a "closed" herd* that doesn't require the addition of outside animals. The next best way *consists of bringing in only young calves or vaccinated heifers.* When adult cattle must be brought in, they can be selected from herds certified free of Bang's disease and blood-tested before purchase. *Even then they are best isolated for 60 days and retested before being turned in with the home herd.*

Whatever you do, you'd better decide right now to get started on some kind of Bang's-control program. The signs indicate that the United States doesn't intend to live much longer with brucellosis in dairy herds.

Don't think the job can't be done, for they said the same thing about bovine tuberculosis 20 years ago. And don't say this is different, for North Carolina, New Hampshire, and Maine already are qualified as certified brucellosis-free states, with others well on the way to such status.

If you don't know how to get started on a suitable program, all you have to do is contact your county agent, veterinarian, or local agriculture teacher. As an alternative, you can write to your state department of agriculture at the state capital and request information. Don't wait, for time's a-wastin', and every day brings you closer to lost markets that may never be recovered. **END**

New warfarin rat poison

A rat-killing water bait containing warfarin, said to be more effective than dry warfarin, has been developed by Prof. Karl Paul Link, University of Wisconsin biochemist. The bait is expected to be available to farmers within a year.

Link explained that the natural diet of rats consists in large part of dry, dusty feeds which provoke thirst. By shutting off the usually available water supply and making available the new water bait, rats drinking it will die within 3 to 7 days.

The Wisconsin Alumni Research Foundation has been assigned a patent on the new product, as on the original dry warfarin available the past two years.

SUPER
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ROOFING NEWS

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Livestock

Late lambs profitable

Late lambs have several advantages over early lambs, according to recent tests at the Missouri Experiment Station. One of the chief advantages is the short length of the lambing season—a 21-day average in two different tests. This indicates that the fertility of the ram was at a high level in November when the ewes were bred for late March and early April lambs.

Labor is an important item to consider at lambing time. The early lambing season always drags out more than twice as long as the 21-day average for late lambs.

According to results of these two tests at Missouri, nearly all the feed required for both the ewes and lambs was furnished from roughage and pasture. Bluegrass pasture was grazed until early July and then a mixed pasture containing an abundant amount of Korean lespedeza.

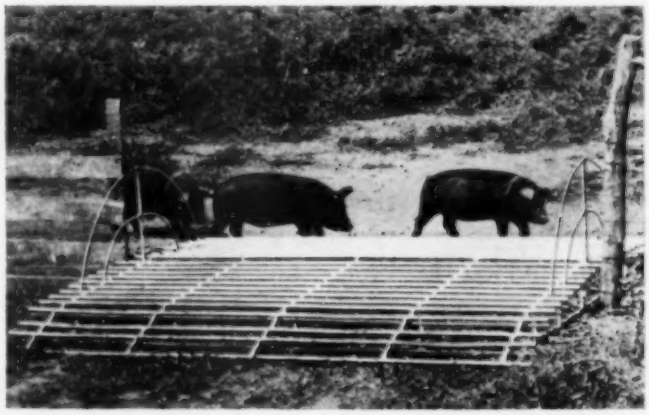
The lambs were weaned on August 16 weighing 78 pounds. They averaged 88.9 pounds when sold on September 2.

Half of the 37 lambs were sheared on July 11 to see if they would gain faster during hot weather. There was little difference in this test with a slight advantage in favor of shorn lambs.—*O. B., Missouri.*

Portable cattle guard

This all-steel and portable cattle guard saves many steps for Vern Hafner, Muscatine County, Iowa. Guard can be used temporarily or permanently in a fence opening through which machines must be driven. At the same time, it successfully turns back both cattle and hogs.

Hafner uses one guard between the barnlot and feed yard, the other between a cornfield and a hog and cattle pasture. Loads of manure, feed, and water have been hauled over the guard. The guard can easily be towed to a new location with a tractor.



Keep cattle away from machinery

Cattle who lick up motor oil and grease from machinery and oil drums stand a good chance of becoming sick with hyperkeratosis (X-disease). The disease may be caused by chlorinated naphthalene which is contained in most lubricants. Chlorinated naphthalenes have also been found in some roofing asphalts, some processed concentrates, and in timothy hay from one particular field.

U.S.D.A. scientists recommend that cattle be kept from areas where farm machinery is parked, and where they can get to discarded oil drums, crankcase drainings, or grease buckets.

Tips on selling cattle

If you want a prospect to buy a beef bull, "make him want his calves." This advice comes from a successful Polled Shorthorn breeder, Paul Teegardin, Pickaway County, Ohio. He has some definite ideas on livestock selling.

It's important to get the buyer on the farm, Teegardin thinks. Keep the stalls bedded and the cattle clean. Show him your herd sire and be able to trace his pedigree with positive assurance—sire, dam, and show record.

Now show off some of the bull's calves if possible—have them broken to lead. Show half sisters or others of family. Convince the buyer of the inherited merit of the animal (don't sell it for breeding if it doesn't have any). Don't be in a hurry when talking cattle. Usually there is farm work pressing, but sales must be made when the opportunity arises.

Teegardin also has sound salesmanship principles for selling beef cattle at auction. Send only the top animals to a national sale. These animals are seen by thousands and their owners are judged accordingly.

One of the best places to sell cattle at

[*Turn to page 158*

Horsefeathers!

Don't let anyone Kid you about Horsehide leather! And comfort and wear. There's a heap of difference. No other work glove leather in the world like . . .

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Triple-Tanned

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ROCKFORD, MICHIGAN

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Livestock

From page 156

auction is right on the farm. Here they look their best. Visitors get to see your herd sires and brood cows, and get used to coming to your farm.

Advertising plays a big part in selling your animals. Use pictures showing the offering, other animals you've shown, and champions bred the same way. Give a guaranty—if you back up the animals it lends confidence to the buyer and he'll tell others. It's good word-of-mouth advertising for your business.

The livestock business has no limits, thinks Teegardin. It's a business where your salesmanship ability pays off.—*D. G., Ohio.*

Winter-feeding steer calves

Here are three feeding programs, used to winter steer calves, developed by the Illinois Experiment Station: (1) daily ration per steer of 22 to 25 pounds of corn silage, 1 pound of protein supplements, and 2½ pounds of legume hay. The average daily gain on this ration is 1½ pounds; (2) ration of 4 pounds shelled corn or grain equivalent and 12 to 14 pounds of legume hay, free-choice. On this ration, the average daily gain is about 1¼ pounds; and (3) a feeding of only 13 to 15 pounds of legume hay, free-choice, per steer per day. Average daily gain per head will run about ¾ pound with this program.

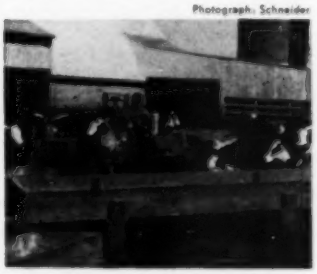
The silage-supplement-hay ration or the shelled corn-hay ration is best if cattle are to be fed grain while on pasture next summer. Straight hay ration is best for farmers pasturing next summer without feeding grain.

Bad hay causes bleeding

Bleeding of cattle is more likely to occur when they are fed improperly cured or moldy sweet clover, according to agronomists at the Nebraska Experiment Station.

They advise feeding sweet-clover hay with other roughages. The agronomists report that they have not noted the bleeding when sweet-clover silage has been fed. Animals acutely affected by the improperly cured or moldy hay may be saved by blood transfusions. This is a job for a veterinarian.

Photograph: Schneider



Feed bunks are moved to and from feedlot with manure scoop by Earl Dauberman, Kane County, Illinois. Scoop also is used to pull fence posts and move hay and feed

How much for feeder pigs?

Purdue University economists have some suggestions for farmers thinking of raising some feeder pigs for sale, or of starting a pig hatchery. Top-level management and good labor are essential, they say; the plant should be equipped to feed out and ship market hogs if the price drops. Capital investment in buildings and equipment for such an operation would be at least $135 for each sow in the herd.

Figures from 30 Indiana hog raisers show that it costs about $10.28 to raise a pig to weaning age. These farmers could have paid $11.29 each for spring pigs and $9.64 for fall pigs and earned net returns equal to those from a two-litter system of raising hogs. Prices of 40-pound hatchery pigs are generally around $14 to $16, the economists report. However, hatchery pigs may be superior in some respects to farm-raised feeders.

Farmers who feed out hatchery pigs can afford the slightly higher cost, because they will not need farrowing space and equipment.

Use oats in hog ration

Short of corn? You can use oats in the fattening ration to replace part or all of the corn. G. R. Carlisle, livestock specialist at the Illinois Experiment Station, says you can maintain normal rate of gain by feeding a ration containing two-thirds corn and one-third oats plus supplement. One hundred pounds of oats has the same feed value as 80 pounds of corn.

However, as the amount of ground oats in the ration is increased, the rate of gain of growing-fattening pigs goes down. Rate of gain will fall about one-fourth if you change the ration to one-fourth corn and three-fourths oats plus supplement. Increasing the amount of oats will also lower the per-pound value of the oats.

Carlisle advises using finely ground oats for best results. Tests have shown that on the average whole oats are worth only 75 percent as much as ground oats for young pigs.

Check influenza early

Fall pigs are easy targets for swine influenza during chilly and changeable winter weather if they are not handled carefully in adequate housing. Swine flu victims usually lose 10 or 15 pounds, and are very susceptible to cholera, enteritis, and similar diseases.

House pigs in well-bedded, well-ventilated, and draft-free quarters. Provide plenty of room so they won't pile at night. Newly purchased pigs should be isolated a week before mixing with the home herd. And take care not to spread infection to a neighbor's premises, or allow him to infect yours.

Listlessness, loss of appetite, coughing, labored breathing, and watery eyes are signs of an influenza outbreak. It pays to have the trouble diagnosed immediately, so that spread of infection to the rest of the herd can be checked. Call your veterinarian if symptoms appear. **END**

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Dairy

Progress made in Bang's cleanup

We're gaining in our nationwide drive to stamp out bovine brucellosis, according to the American Veterinary Medical Association. Here is what's being done in several states.

Over 85 percent of all calves in six states were vaccinated in 1951. These states were Connecticut, Pennsylvania, New Jersey, Vermont, New York, and West Virginia. In addition, six other states—Delaware, Maine, Maryland, Massachusetts, Virginia, and Rhode Island—had from 25 to 75 percent of their calves vaccinated in 1951.

In one state, Idaho, calfhood vaccination has increased about 100 percent every year from 1946 through 1950. Other states which have also pushed broad-scale calfhood vaccination include Oregon, Washington, Montana, Florida, Louisiana, Tennessee, Alabama, North and South Carolina, Georgia, and Mississippi.

Putting a stop to vibriosis

Here are three recommendations by the American Veterinary Medical Association which should help curb vibriosis, a disease causing calf abortion. This disease has been increasing constantly and is often confused with Bang's disease.

The association suggests: (1) Avoid buying stock from infected herds or herds suspected of being infected, or animals which show a positive agglutination test for vibriosis; (2) isolate aborting cows from the rest of the herd and do not rebreed for at least three months; (3) treat all infected or suspicious cows individually before rebreeding.

Lots of milk in grass silage

Good-quality grass and legume silage is as nutritious as good corn silage for milk production.

A. D. Pratt, of the Ohio Experiment Station, says that the grass-legume mixture is equivalent in nutrition to corn, provided it is properly fermented.

He states that the value of grass silage is dependent upon the proper use of conditioners which prevent fermentation of carbohydrates. Corn-and-cob meal or molasses is a good conditioner which insures palatability and uniform quality.

His tests show that proper distribution of the conditioner is more important than the amount used. The experiment station recommends 150 pounds of corn-and-cob meal to a ton of green material.

No established ratio has been found for the feeding of hay and silage together. It depends, according to Pratt, on the palatability and quality of each. He stressed that the feeding value of silage is never as great as that of its raw materials. This is the cost of preservation.

Hay sharpens appetites

Some dairymen who are starting to feed grass silage to their dairy herds are having difficulty getting the cows to eat. George Parsons, Michigan State College, says this is not an unusual problem, and that it may easily be solved. He suggests feeding about 5 pounds of dry hay along with the silage rations. This will create an appetite for the silage.

Keep semen by freezing

Bull semen can now be stored for as long as four months without losing fertility. Until this process was developed by British scientists, it could be kept for only a few days.

The scientists cool the semen down to 142 degrees below zero—as cold as dry ice. An egg-yolk-and-glycerol mixture is used to protect the sperm cells from toxic salts which concentrate around them.

[*Turn to page 162*

Photograph: Pease

Conveyer saves lifting and carrying milk cans from cooler to loading dock for Wendell Oden, Appanoose County, Iowa. Oden obtained the unit from a milk plant

"How much Life Insurance should a man own?"

That depends upon what his responsibilities are

People's needs differ. Family needs differ. Goals, ambitions, desires, needs—all are likely to be different from the folks just down the road.

How then can a man tell *how much* life insurance he should own?

The best way is for him to sit down with his family and first figure out *what his responsibilities and goals* are. What are the specific ambitions, desires, and needs of the family?

Among the things that a man may want to consider are protecting his family by covering the immediate expenses in case of his death; providing an income for his family; education for his children; a farm free and clear; possibly a retirement income.

Once these goals are clearly determined, he would naturally turn to the person best qualified to help him fit life insurance to these goals—his life insurance agent.

So you can see there is no one answer to how much life insurance a man should own. It depends entirely upon what he needs and wants life insurance to do for him.

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Make a syrup with 2 cups of granulated sugar and one cup of water. No cooking needed. (Or you can use corn syrup or liquid honey, instead of sugar syrup.) Then put 2½ ounces of Pinex (obtained from any druggist) in a pint bottle, and fill up with your syrup. This makes a full pint of medicine that will please you by its quick action. It never spoils, and tastes fine—children love it.

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FOR EXTRA CONVENIENCE GET NEW READY-MIXED, READY-TO-USE PINEX!

THE PINEX CO., FORT WAYNE, IND.

Dairy

From page 100

If the process proves itself under practical conditions, it may be possible to use semen from one particular bull for a continued breeding plan laid out months in advance.

Milking time varies

Individual cows have individual milking characteristics, according to research conducted at Cornell University. L. H. Schultz says each dairy cow in the Cornell University herd is being tested to determine the time required for complete milking.

More than 1,000 tests on 140 cows of different breeds were conducted. It was found that the average time per cow was 3 minutes, 35 seconds. But some cows milked quicker than others. Some took as long as 9 minutes; others were milked dry in 1½ minutes. The average time for machine stripping was 38 seconds, and this time varied on different cows, too. The maximum time was 2 minutes, and the maximum amount of milk obtained in stripping was 8 pounds. The average figure of all cows for stripped milk was 1.8 pounds.

The scientists learned that a cow milks faster in late lactation, or the period 250 days after calving. One cow took 4½ minutes for milking 50 days after calving, and by 250 days she could be milked dry in 2½ minutes.

As yet, the Cornell scientists do not plan to change their milking recommendations. But their research points out these facts: (1) The average cow can be milked out in 4 minutes or less. (2) Cows vary considerably in required milking time. Each should be treated as an individual by the milkman, who should know about how fast she should be milked. (3) The average cow can be milked dry by machine stripping—it should take about 40 seconds. (4) The time required for milking will decrease as the lactation advances. Individual milking time may decrease as much as 2 minutes after the cow has been milked several months. **END**

SUCCESSFUL FARMING

"Miss Tetlow, kindergarten, speaking. . . . 13 jammed snowsuit zippers . . . help! . . ."

Who shall speak for farmers?

From page 37

In the commodity groups, such organizations as the National Milk Producers Federation, National Livestock Producers Association, National Federation of Grain Cooperatives, National Poultry Producers Federation, and others also are important. Nearly all of these have member organizations affiliated with the National Council.

Farmers Union is liberal

Another farmer spokesman is the National Farmers Union. This organization has been in existence 50 years, but really mushroomed during the Depression and the immediate prewar years. The Farmers Union often espouses the cause of the underdog—and more often than not goes along with and promotes present administration policy, in contrast to the Grange and the Farm Bureau.

Significantly, some of its membership is very conservative. South Dakota Farmers Union members went so far as to throw their weight behind Senator Taft in the recent Republican primaries. By contrast, North Dakota membership is traditionally Democratic.

Until recently, the Farmers Union was strongest in one-crop areas, especially wheat, and in submarginal and marginal sections. "Big farmers" are the whipping boys for much of the material published under the Farmers Union aegis. Yet a few years back a Roper Survey indicated that the Farmers Union actually had more big-income members than the Farm Bureau it so often accuses of representing "big" farm interests.

Farmers Union paid membership stands at 207,000. This figure represents 517,000 people 16 and over. Membership is based on a one-per-family count, but each member of the family gets a vote.

Declares Farmers Union President Jim Patton:

"I have never pretended or stated that the Farmers Union speaks for all American farmers, and any farm leader who claims that is taking in too much territory. If all the commodity groups and the farm organizations were to agree—which seems almost impossible—such a combination would still not be speaking for *all* farmers."

Cause of the confusion

Each of these large national groups of organized farmers can speak *for its members*. The confusion arises from competition among some of them to speak for all farmers. The example cited at the beginning of this article is typical. While the Grange absolutely opposed A.C.P. pay-

[*Turn to page 164*

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Who shall speak for farmers?

From page 163

ments, and the Farm Bureau recommended a severe cut in the appropriation, the Farmers Union was behind the bill tooth and nail, as were P.M.A. and other U.S.D.A. representatives. Yet the Farm Bureau was singled out for the publicly made statement that it does not represent the farmers! Does the U.S.D.A.-Farmers Union coalition come closer?

In a more recent congressional move to "up" minimum price support on basic crops to 90 percent, the Grange and Farm Bureau again were lined up against the administration. Commenting on the situation, the *Wall Street Journal* had this to say: "Now there is irony in this picture of the two largest farm groups trying to put the brakes on a federal aid program for farmers—while the legislators want to push ahead willy-nilly. . . ."

Observing the situation, a seasoned Washington farm reporter says of the farm political situation: "At the Washington level the farm picture has become somewhat muddled. The old Farm Bloc has splintered on half a dozen or more major issues. The farm organizations are feuding among themselves and with the U.S.D.A."

Remarks President Patton:

"There are new political-power forces in American agriculture. These power forces are made up of farmers who strongly support A.C.P. (agricultural conservation payments of the Department of Agriculture's Production and Marketing Administration), Rural Electrification Administration transmission lines, generating plants for R.E.A., public power, and the farmer-elected committee system. The general farm organizations, with the exception of the Farmers Union, have obviously not given sufficient weight to the new . . . forces. . . ."

Government speaks, too

We have a growing body of government agencies all attempting to speak for the farmer—the F.H.A., R.E.A., C.C.C., to name a few—and especially the P.M.A., which was an outgrowth of the original Agricultural Adjustment Act outlawed by the Supreme Court. We even have the preposterous situation of government agencies vying among themselves—as well as fighting farmer organizations—for the job of being the farmer's spokesman!

P.M.A. was ostensibly organized as a grassroots farm committee system. The idea was that local P.M.A. committeemen in every community would be in a position to advise the government on what the farmers needed and wanted.

For all practical purposes, P.M.A. has become the arm of the government which regulates and controls agriculture. Some

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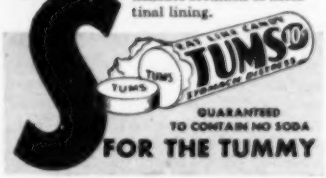

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Grain and Roughage Mill
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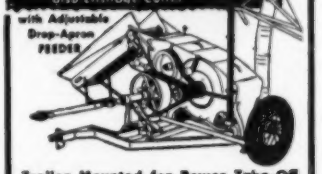


Trailer Mounted for Power Take-Off
Furnished either with or without drop apron feeder and power take-off with trailer as shown. Grinds any feed, green, wet, or dry, snapped or ear corn, roughage bundles or baled flakes, with ordinary farm tractor, — and no monkey business. Has both cutter knives and heavy swing hammers.

Get full information on this real honest-to-goodness grinding outfit. Four sizes available. Write
Western Land Roller Co., Dept. 896
Hastings, Nebraska—Manufacturers

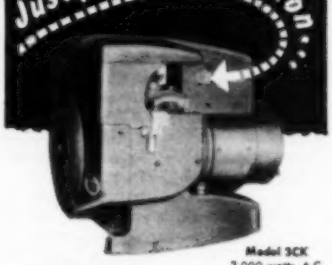
CLEAN STABLES *faster!*

—with this Deep-Bowl Dairy Scoop
Straight sides of blade fit gutter walls. Deep bowl (10½" wide at blade edge—4½" deep at back) scoops easier—holds more—cleans faster. Saves more liquids. Long or Dee handle. At your Dealer, or he can get promptly from his Jobber.

INGERSOLL
STEEL DIVISION
Borg-Warner Corporation
Shovel Department
New Castle, Indiana
(897)

INGERSOLL *Deep Bowl* DAIRY SCOOP

When power fails—
or voltage drops—
Just push this button



Model 3CK
3,000 watts, A.C.

...on your
ONAN Electric Plant

Insure your electric power supply. An Onan Electric Plant furnishes regular 110-volt electricity for lights, pumps, milkers, oil burner, freeze chest, etc., when storms cut highline power. Easy to install. 1,000 to 35,000 watts, A.C.

Also available: Onan A.C. Generators only (belt up to your tractor for power). 3,000, 5,000, 10,000 watts.

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Onan PRODUCTS
D. W. ONAN & SONS INC.
8997 Univ. SE, Minneapolis 14, Minn.
ELECTRIC PLANTS

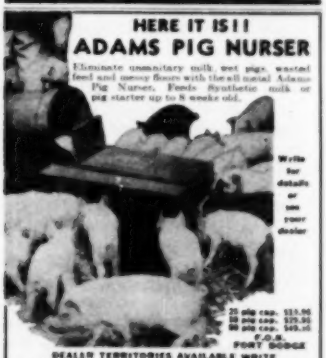
H-K ADD-A-UNIT REMOVABLE UNLOADER COMBINATION

Unloads 20 bu. per min.—whole or ground grain. Operates off P.T.O. Auger action. Available complete with trailer, box and unloader, or any part separately. Trailer adaptable as tilt-top unit.

HOTCHKISS STEEL PRODUCTS CO.
dept. S-B, Bradford, Ill.

HERE IT IS!!
ADAMS PIG NURSER

Eliminate unsanitary milk, wet pigs, wasted feed and messy floors with the all metal Adams Pig Nurser. Feeds Synthetic milk or pig starter up to 8 weeks old.



Write for details or see your dealer

25 pig cap. $23.95
50 pig cap. $29.95
90 pig cap. $49.95
F.O.B. FORT DODGE

DEALER TERRITORIES AVAILABLE WRITE
DODGEN AND COMPANY
FORT DODGE, IOWA

say the P.M.A. is a device organized not only to administer national agricultural programs, but also *to control farmers*. Whether or not these charges have foundation in fact, any government agency *in a position* to be used politically should be carefully scrutinized.

Loren Soth, in* The Des Moines Register, *writes:

"In American politics it is always considered wise to claim support from the 'grassroots farmer,' or claim . . . 'local farmers control. . . .'

"Actually, most close observers of the farm political picture recognize that *all* the great power groups are largely directed from the top—which is natural and inevitable in any such organization. That is the way political power is wielded."

A new voice enters

What, if any, tie exists between the P.M.A. and the newly organized Committee for Agricultural Progress is not quite clear. This latter organization, however, is made up largely of people formerly prominent in the old Triple A, C.C.C., P.M.A., and other government agencies. It made its debut as a farm organization when members testified before the recent Democratic Farm Platform Committee at Chicago.

The committee's stated objective is to maintain and expand the very programs for which P.M.A. and a list of other government bureaus were organized.

This Committee for Agricultural Progress is already active in 18 states. Significantly, one of the key representatives of this latest organization which "speaks for farmers" has long been identified with the National Farmers Union.

Tilling the nation's soil involves a lot more than sowing the seed and minding one's own crops. If farmers are to remain free and independent, they are going to have to make up their minds who shall —*and who shall not*—speak for them.

[*Turn to page 166*

SUCCESSFUL FARMING

"Frank, what was the name of those people who used to live next door—the ones with the dachshund?"

MAKE More Money WITH THESE Simple Tests!

Here's how to know **right away** how much fertilizer this year's crops took out of the soil—just what kinds and how much to get for next spring, or to apply yet this fall. Save up to $15 an acre by using only what is needed.

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Make every $1 you spend for fertilizer bring back up to $12 in extra yield! H. C. B. doubled his wheat crop, tripled oats and hay, boosted oats 500%, with his Sudbury Soil Test Kit, it's the most important thing to do *NOW* to boost your 1953 income!

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No Knowledge of Chemistry Needed

Takes only 10 minutes, costs less than 10c a test. Tells how much nitrogen, phosphate, potash and lime every field needs to do its best. Makes hundreds of tests. Charts show needs of 215 different crops. Lifetime steel chest with handle.

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Over 300,000 Now in Use!

Send No Money

Just pay mailman $4.95 plus postage on delivery, then 4 Easy Monthly payments of $6.75 each.

FREE

Or, send $29.95 in full and we'll include valuable book "Our Land and Its Care" free. You'll save from $1.35 to $2.95 in postage charges.

Better Crops Guaranteed

If you don't get bigger and better crops next year, return kit and we'll send your money back.

Sudbury Laboratory, Box 424, South Sudbury, Mass.
☐ Send me by return mail the Sudbury Soil Test Kit. I'll pay mailman $4.95 down plus postage, and make balance in 4 Monthly Payments of $6.75 each.
☐ Enclosed is $29.95. Send postpaid, saving me postage charges. Also include free "Our Land and Its Care."
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FALSE TEETH
Looseness and Worry

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LOOK, MOM... NO HORNS!

And it didn't hurt—done with PÔL. Just brush on PÔL and it forms a tough film fast. Horn buttons soon peel off. Won't ooze to harm calf's face. No danger to cow when nursed. Easy for one man alone to do the job. Each $1.25 bottle dehorns 12 calves or kids. Be a pal . . . use PÔL. Your Dr. Hess dealer has it. Dr. Hess & Clark, Inc., Ashland, Ohio.

DrHESS PÔL

Scientific Farm-ceuticals Since 1893

"Vote for me—
and treat yourself to the best."

MAIL POUCH quality is in the tobacco. It isn't overloaded with sugary sweetness that tires your taste. That's why Mail Pouch Tobacco tastes better—lasts longer.

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Poor layers are a constant loss in feed and care—cull them out and sell them for market.

Keep Pilot Brand Oyster Shell before the good layers all the time, at a cost of a few cents per hen per year. Each hen should then produce 30 or more extra eggs per year.

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At most good feed dealers

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POWDER for coal, coke, wood • **LIQUID** for oil, kerosene

Throw on fire or pour into your fuel tank! Works while you sleep!

CHIMNEY SWEEP

at hardware and department stores

Accept No Substitutes

G. N. COUGHLAN CO., W. Orange, N. J.

Who shall speak for farmers?

From page 165

If we could know who is and who is not a farmer, we would go a long way toward determining who should speak for the farmer.

One big reason for the confusion over who shall speak for farmers—and consequently over national agricultural policies in general—is that we have such a wide variety of farms. There are commercial farmers, subsistence farmers, and the rural nonfarmer—plus the man who farms a little after hours.

The 1950 census shows that of our 5.4 million "farms" only about 1.2 million gross $5,000 a year or over, while 1.7 million "farmers" sell less than $250 worth of produce a year, earning more off the farm than on it.

Somewhere between 40 and 50 percent of all the so-called "farmers" make their primary income outside the farm. Yet, when it comes time to formulate an agricultural policy or program, this 40 to 50 percent has as much to say as has the man who really makes a living farming.

Undoubtedly, the definition of who and what comprises a bona fide farmer needs a thorough reappraisal. How can producing farmers determine who should speak for them if they are outvoted by part-time farmers or rural resident nonfarmers?

That *working farmers* can and do pull together has been proved in a number of states. New York, for example, has a Conference Board of Farm Organizations which speaks out for the industry on a state-wide basis. This group is made up of representatives from each of the eight major agricultural organizations in the state and has a strong legislative program.

On the national level, the organization which comes nearest to comparing with the Empire State's Conference Board of Farm Organizations is the National Committee of Farm Production Supplies. This organization lists among its members such diverse agricultural groups as Pacific Supply Cooperative; Northwest Wholesale of Washington; Missouri Farmers Association; Farmers Cooperative Exchange of North Carolina; Fruit Growers' Supply Co., California; Illinois Farm Supply; Eastern States Farmers Exchange of Massachusetts, as well as the Grange, Farm Bureau, Farmers Union, and National Council of Farmer Cooperatives.

Each of these groups, in turn, represents farmers. These farmers have their money invested in cattle, in machinery, livestock, and land—the total for which far exceeds that for all other industries in the country.

The National Committee of Farm Production Supplies works quietly. In some respects cooperation on this committee has been without precedent.

But warns Jim Patton:

"Some people propose a federation of all agricultural organizations. I am opposed to attempts to have one voice

for American farmers. . . . The United States is too large and the diversity of interests of farmers is too great. . . . Beyond that, there is great danger that, if we had one voice for American farmers that voice would soon be joining hands with the . . . management-controlled basic industry group and some powerful labor forces. . . ."

Loren Soth, in* The Des Moines Register, *agrees:

"The conflicts among these power groups cannot be 'settled,' nor should they be. They are the essence of democratic policymaking. . . ."

Real leaders, working farmers

The time has come for farmers everywhere to make a careful study of their organizations, and take a long look at their own leadership. Farmers must rally to the support of their *real* leaders and weed out the weaklings, the would-be dictators, and those who are going along for the ride.

To do this job, start by asking yourself if you, as a *working farmer* whose whole investment in time and money is in your farm, are carrying your share of the load.

When it comes time to decide on an agricultural policy, do you "leave it to George"? Or, worse still, do you only see the policy as it applies to your few acres? Then, when it is too late, do you raise a great outcry because the public in general and even some of your fellow farmers criticize you?

You hold in the palm of your own hand much of the responsibility for the future health, happiness, and political stability of America. It's *your* responsibility to decide who shall speak for farmers. You'd better stand up and be counted before you lose that God-given American privilege—freedom to speak for *yourself*. END

Song for little paths

Do you remember little paths
Young feet were always finding,
Where moss and starflowers in the grass
Led on to some new winding?

Do you recall how smell of dew
And leafmold so commingled
That every nerve and sense of you
With thrilling fragrance tingled?

And how each morning, sky-washed, clean,
They beckoned up some hill
Or down some craggy, dark ravine
Where the stillness was *so still?*

Oh, brave for outward questing
The great roads follow through,
But for our spirit's resting—
The little paths we knew!

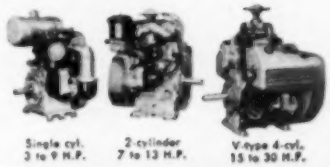
—*Maud Ludington Cain*

Wherever Engine POWER is Needed...

WISCONSIN
Heavy-Duty *Air-Cooled*
ENGINES
fit the Job and the Machine

Because Wisconsin Air-Cooled Engines are supplied in a complete power range, from 3 to 30 H.P., in 4-cycle single cylinder, 2- and 4-cylinder types, there is an ideal size to fit all types of machines and power applications within this range, without wasted power and with maximum power service benefits. Heavy-duty construction, combined with extremely compact design and light weight are added advantages — and dependable AIR-COOLING permits trouble-free service under all climatic conditions.

Specify Wisconsin Heavy-Duty Air-Cooled Engines for the utmost in power satisfaction. Write for free copy of "Power Magic," illustrating and describing the full line of Wisconsin Air-Cooled Engines and ask your dealer about these heavy-duty engines.



Single cyl. 3 to 9 H.P. — 2-cylinder 7 to 13 H.P. — V-type 4-cyl. 15 to 30 H.P.

MOST H.P. HOURS

WISCONSIN MOTOR CORPORATION
World's Largest Builders of Heavy Duty Air-Cooled Engines
MILWAUKEE 46, WISCONSIN

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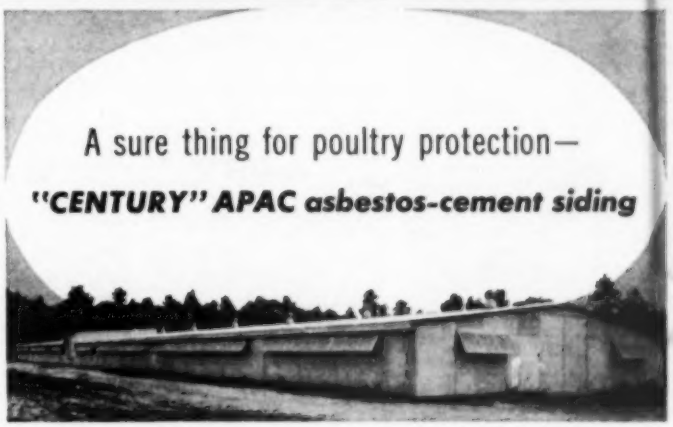
"CENTURY" APAC asbestos-cement siding



PROOF positive against fire, pests, and weather, "Century" APAC ¼" Asbestos-Cement Siding stands solidly between the thousands of chickens in LeGarde Poultry's big buildings at Easton, Maryland, and these ever-present-threats to poultry profits.

"Century" APAC, a tough combination of asbestos fibers and portland cement, goes up easily, as original siding or over existing walls. Its 4'x 8' sheets, in thicknesses of ⅛", ¼", and ⅜", can be scored and snapped off to fit right on the job, and then quickly fastened with nails or screws.

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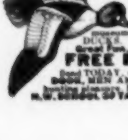

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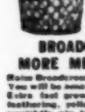

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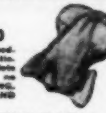

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100 HY-LINES LAY AS MANY EGGS AS 127 OTHER CHICKENS

That's the egg producing advantage of Hy-Lines over other chickens . . . proven in divided flock tests by 417 farmers. In 11½ months, these farmers gathered an average of 190.2 eggs per Hy-Line layer housed, compared to only 149.3 from their other chickens. This means that *100* Hy-Lines produced as many eggs as *127* standard-breds and crossbreds . . . decisive proof of Hy-Lines' greater profit-making advantage.

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In feed utilization, 53 farmers reported: Hy-Lines averaged 37½ to 53 lbs. less feed per case of eggs than their other chickens. At 4½c per lb. average for grain and mash, Hy-Lines' feed cost per case was $1.69 to $2.39 less.

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A Department of Pioneer Hi-Bred Corn Company
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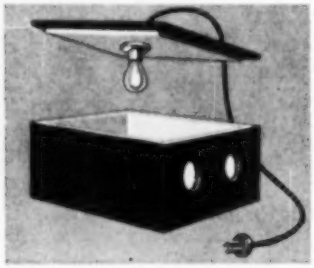
All around the farm *A page written by our readers*

I cut a round hole 5" across in a smooth, lightweight board such as plywood that will reach across our cream-separator bowl. I then set the milk strainer in the hole. With this device, I can use both hands to pour large pails of milk through the strainer. This is not only convenient but serves as a cover while separating milk.—*J. P. F., Kansas.*

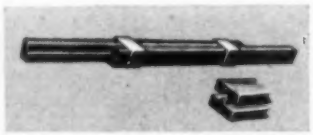
To candle a few eggs as required, I made the simple candling box shown. I fitted a small wooden box about 8"x 10" in size and 8" deep with a wood cover, onto which I fastened a porcelain receptacle for a light bulb. This I



wired to a plug attachment with an extension cord. I lined the box with white asbestos paper for insulation. In one end I drilled two holes $1\frac{1}{4}$" in diameter. I lined the holes with strips of felt.—*H. C. L., Nebraska.*

When I open a new can of paint, I punch a number of holes with a hammer and nail in the bottom of the small groove in the top of the can. Paint that drips in the groove drains back into the can, although there is enough paint to effect a seal in spite of the small holes in the groove.—*R. C., Illinois.*

When looking for a short in an electric fence, I first check the fence at night. If the fencer is going, even the smallest short will usually show a spark.—*W. R. M., Jr., Nebraska.*

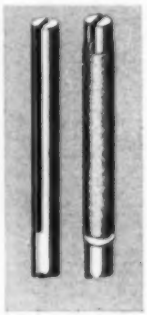


To make a very good slide-type measuring stick, I rip a half-inch from opposite edges of a piece of flooring. I prefer hardwood to assure a permanent rule. If one is handy with metal tools, a couple of guides may be added to the rule. Bend both guides over and fasten under rule.—*M. J. H., Illinois.*

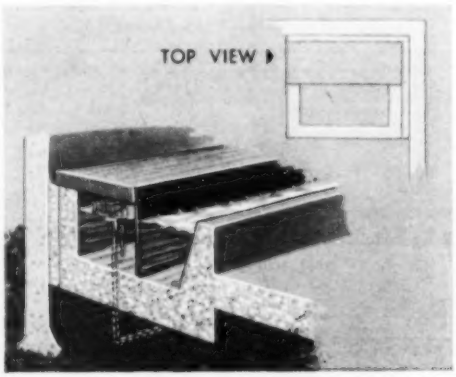
We find that paper towels, which retain their strength after wetting with warm water, are just the thing to use when washing the udders of cows. The towels reduce the risk of spreading bacteria from one cow to another.—*J. O. C., Ohio.*

We cut out a space in the corner of the concrete floor of the hog house to build in a concrete hog waterer of the type shown. It was designed mostly for winter use but has been in constant use the year round. The sketch is self-explanatory as to arrangement of parts. The float and valve is a standard water-closet ball cock with fitting brazed on to take standard pipe. Vermiculite concrete is poured between waterer and outside walls for insulation. Small holes are drilled in the metal partition about an inch below the water line so that mud will stay in the drinking compartment for removal. A hole is made in the plank cover to admit the cord of the electric heating element in the float chamber. The element has an operating range of 40 to 50 degrees.—*J. L. A., Iowa.*

When a hole must be drilled too small because of lack of proper bit size, an effective reamer can be made quickly with a short length of dowel and some sandpaper. This can also serve as a small drum sander, or, when used with emery cloth, will work metal, and save tedious filing. Dowels $\frac{1}{4}$" in diameter will fit in most hand drills and will be strong enough when slotted. Slot all but a half inch or so and slip a 3" square of sandpaper into the slot, wrapping it around the dowel. This can be secured with adhesive tape if used for most filing, or as a drum sander, but when slipped into a hole as a reamer it will be all right if wrapped in the same direction that the chuck turns.—*W. J. L., Illinois.*



For secure footing on a ladder, I tightly wrap an old sack or strips of burlap around the first rung of the ladder. On this shoes can be cleaned. This keeps upper rungs clean and dry in muddy weather.—*R. F., South Dakota.*



Successful Farming **will pay $5 for each item upon publication. You are invited to send us your ideas. We consider each one carefully, but regret we cannot return those not published.—*The Editors***

Illustrated above: State Commander V-8 Starliner—also available as a Champion. White sidewall tires, chrome wheel discs—and glare-reducing tinted glass—optional at extra cost.

This Studebaker style star is a stand-out gas saver

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One hundred years of progress on the roadways of the world

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Yes, TIDE gets clothes WHITER than bleach alone... WHITER than bleach added to any soap or "detergent"!

New TIDE miracle! No need to bleach–except for stubborn stains!

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So kind to hands! So safe for all washable colors!

So kind, so gentle! Yes, with all its cleaning and whitening action, Tide has an amazing new mildness. Not even the leading "detergents" made especially for *dishwashing* are so gentle and kind to hands as Tide!

Actually brightens colors! For dramatic proof of Tide's safety, watch soap-dulled colors come *brighter* after just one Tide wash! Yes, Ma'am! You can trust even your daintiest wash prints to Tide's gentle care.

So thrifty to use! Such a *little* Tide makes such oceans of suds . . . goes so far in hardest water, it's a miracle! Get Tide today, and next washday you'll rinse out cleaner, whiter clothes—*with no bleaching!*

NO OTHER WASHING PRODUCT CAN PROMISE ALL THIS!

Washes clothes
WHITER
than you can bleach them!

Gets clothes
CLEANER
than any soap of any kind!

MILDER
for hands than any other leading "detergent"!